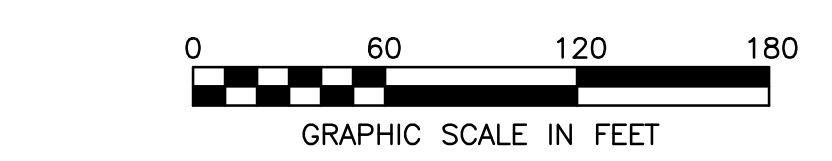
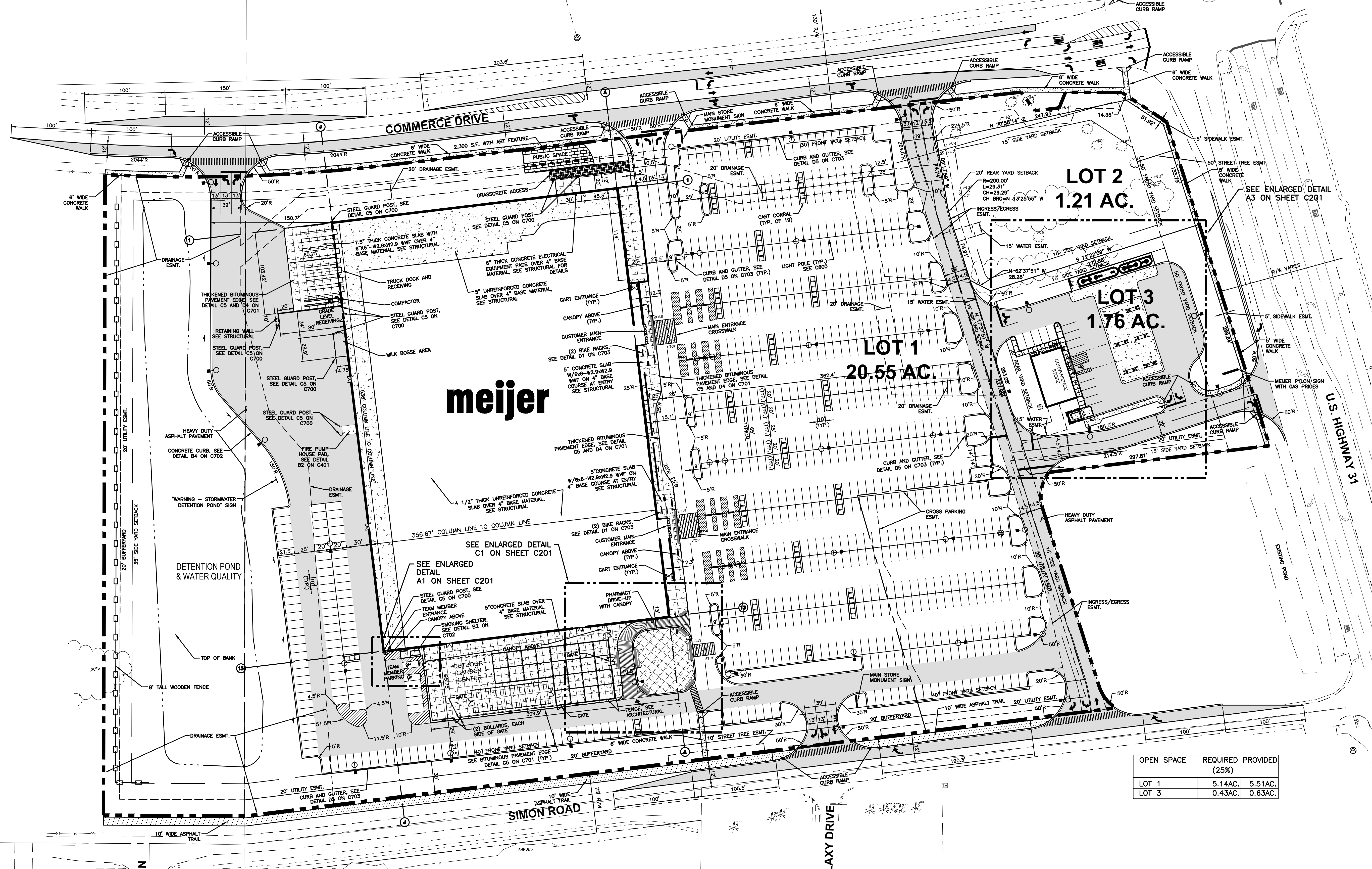


D
C
B
A

A1
SCALE: 1" = 60'

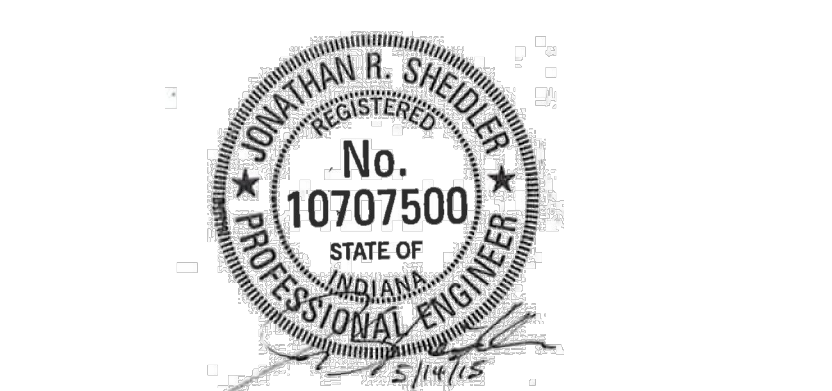
SITE LAYOUT / PAVEMENT PLAN



- GENERAL NOTES**
- NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
 - DIMENSIONS AND/OR COORDINATES ARE TO BACK OF CURB, CENTERLINE OF BUILDING COLUMN LINE (INSIDE FACE OF PRECAST), EDGE OF PAVEMENT OR CENTER OF STRUCTURE OR SIGN. VERIFY BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - BUILDING SLABS, UNDERBED THICKNESS AND LOCATIONS ARE SHOWN FOR REFERENCE. VERIFY WITH STRUCTURAL DRAWINGS.
 - REFER TO SHEET C500, C501 FOR STRIPING/SIGNAGE, AND PARKING COUNT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING TO ACCOMPLISH ALL WORK INDICATED ON PLANS AND PERFORM REQUIRED COMPACTION OPERATIONS.
 - PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, EXCAVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
 - NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED IN THE RIGHT-OF-WAY.
 - WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
 - EXTERIOR CONCRETE SLABS ADJACENT TO BUILDING SHALL BE PLACED ON 6" STRUCTURAL CUSHION, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
 - AGGREGATE TO EXTEND 12" BEYOND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE DETAIL D1 AND D3 ON SHEET C701.
 - ALL RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
 - CONTRACTOR RESPONSIBLE FOR DEVELOPMENT AND APPROVAL OF MAINTENANCE OF TRAFFIC PLANS FOR INDIANA DEPARTMENT OF TRANSPORTATION AND MUTCD STANDARDS.

PAVEMENT LEGEND

[Pattern]	CONCRETE
[Pattern]	HEAVY DUTY ASPHALT SEE D1 ON C701
[Pattern]	LIGHT DUTY ASPHALT SEE D1 ON C701
[Pattern]	RIGHT-OF-WAY ASPHALT PER INDOT STANDARDS



PERMIT SET - NOT FOR CONSTRUCTION

meijer

**STORE FRK
CONSTRUCTION PLANS**
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

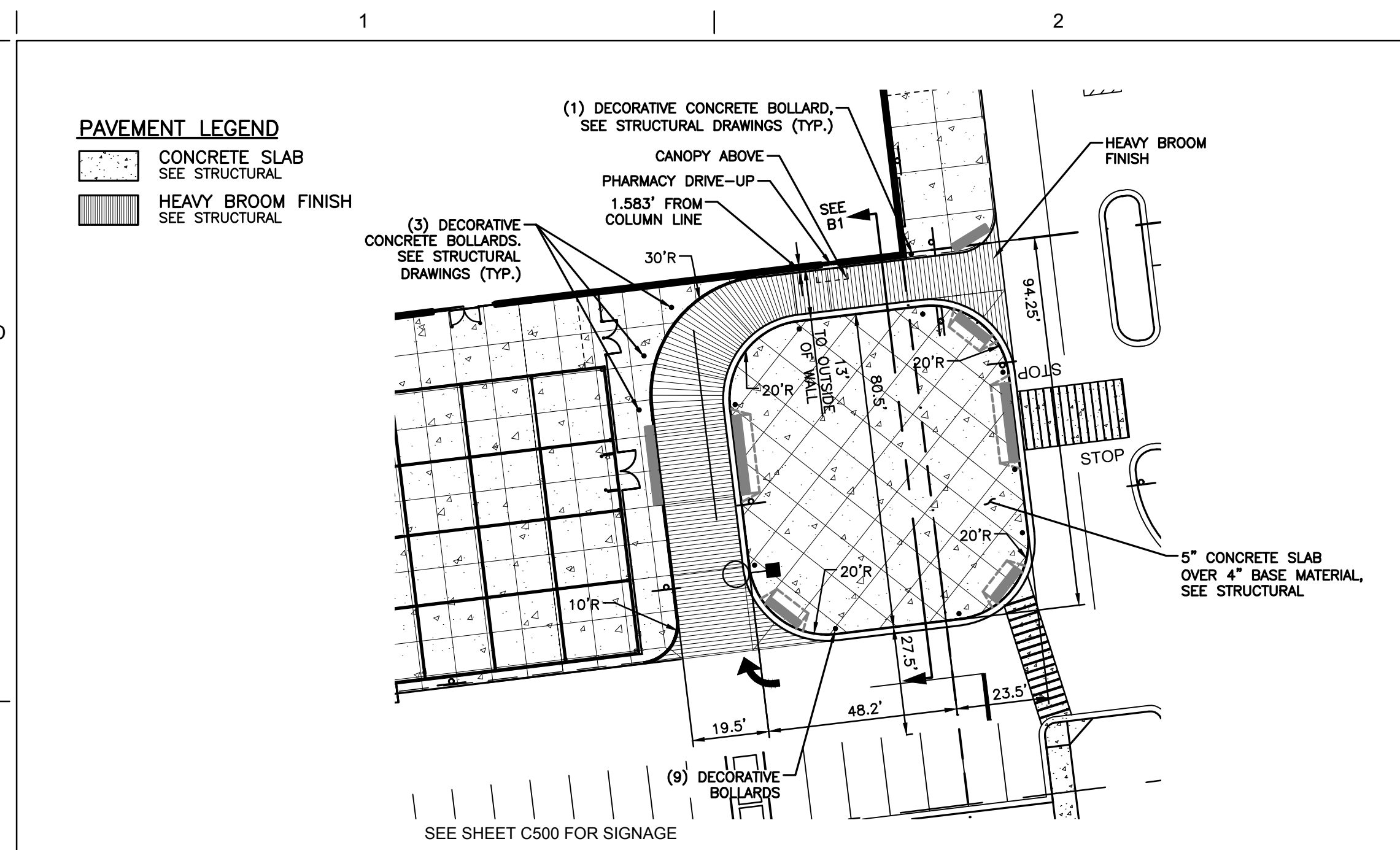
DESIGNED BY: **WOOLPERT**
DESIGN | GEOSPATIAL | INFRASTRUCTURE
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

SITE LAYOUT / PAVEMENT PLAN

DRAWN BY	ISSUE	ISSUE DATE	SHEET NO.
SMB	1	05/14/15	C200
CHECKED BY	MEIJER PROJECT NO.	WOOLPERT PROJECT NO.	
BJH		74485	

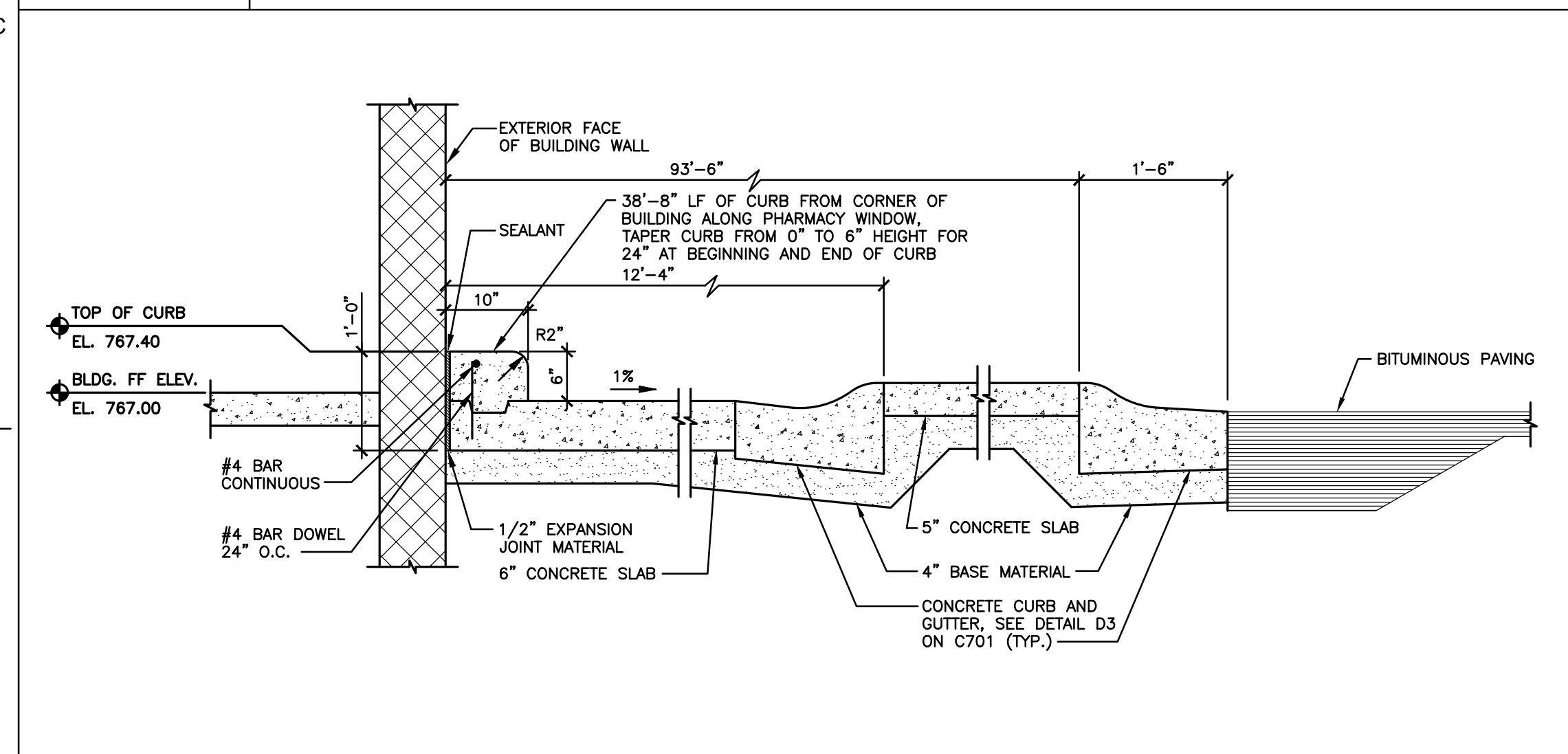
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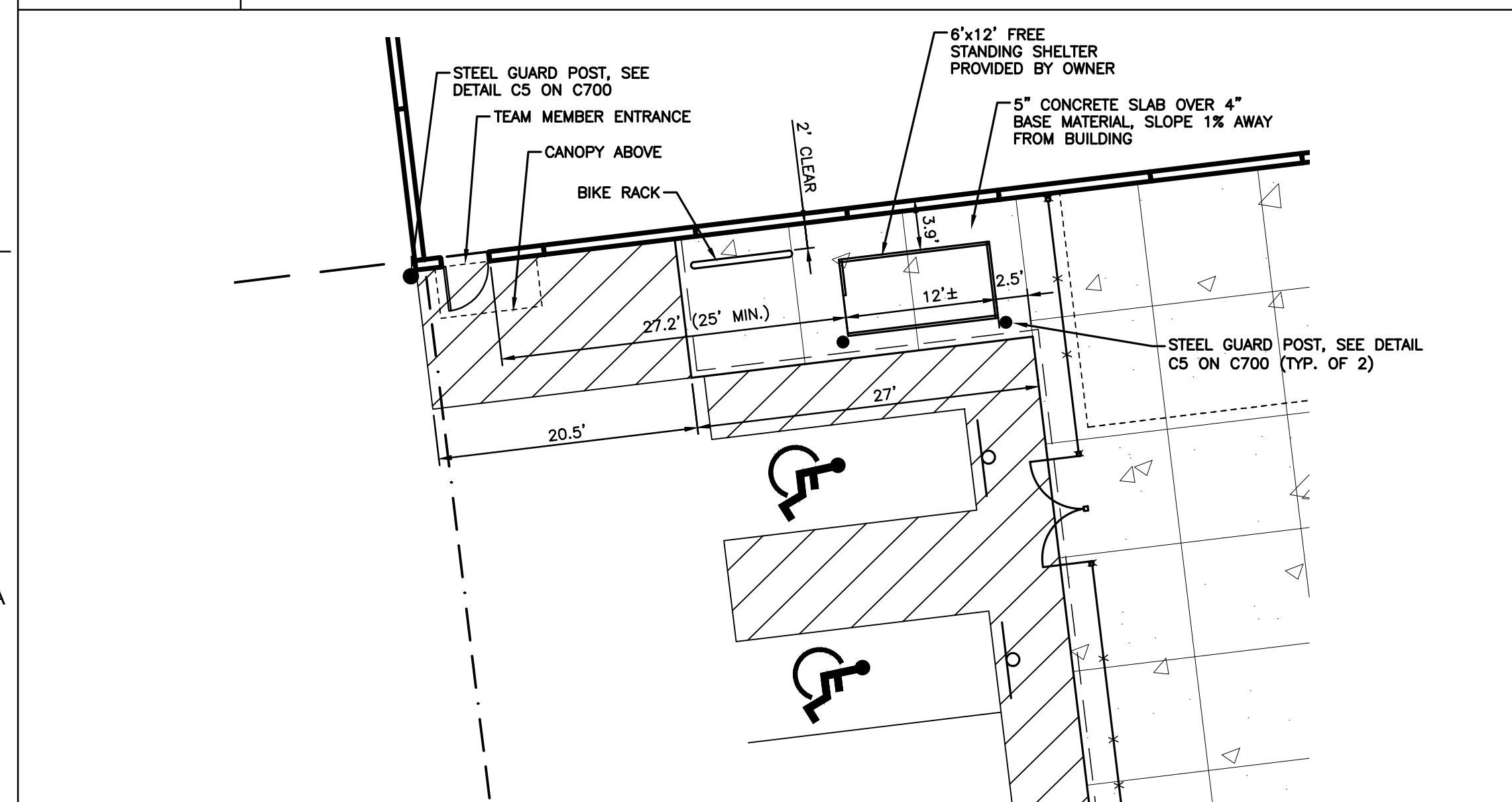
C1	PHARMACY DRIVE UP SECTION
----	------------------------------

SCALE: 1" = 30' A1/C200

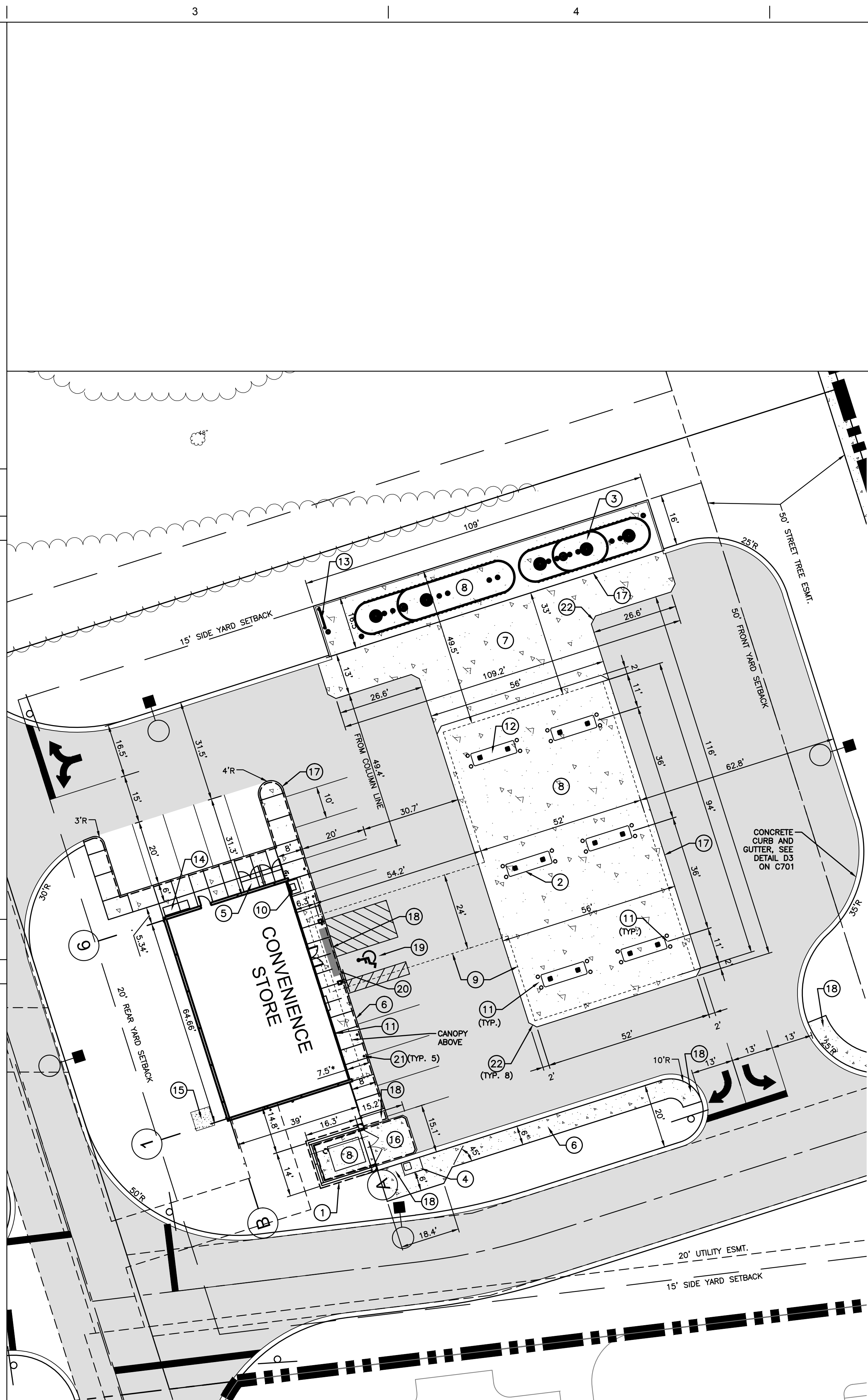


B1	PHARMACY DRIVE-UP SECTION
----	---------------------------

SCALE: 3/4" = 1'-0" | C1/C200



SCALE: 1" = 10' A1/C200

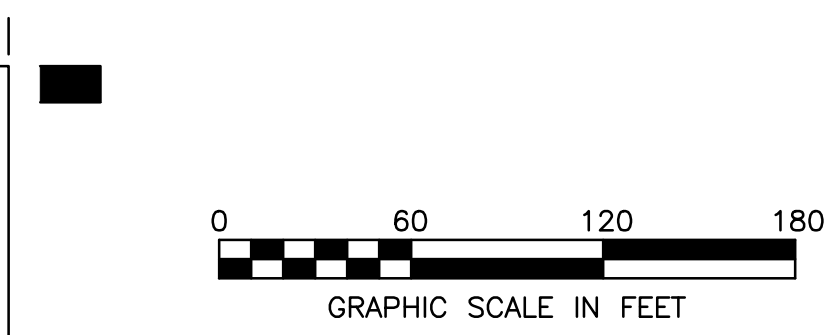


SCALE: 1" = 20' A1/C200



- ① TRASH DUMPSTER ENCLOSURE AND PAD. (REFER TO ARCH GAS STATION DRAWING FOR DETAILS).
- ② PUMP DISPENSER. CONSTRUCTION TO BE PERFORMED BY FUEL SYSTEM CONTRACTOR. LOCATION ON C200 FOR REFERENCE ONLY.
- ③ FUEL TANKS AND CONCRETE PADS SHOWN AS REFERENCE INFORMATION ONLY. TANKS AND FUELING SYSTEM PROVIDED BY FUEL SYSTEM CONTRACTOR.
- ④ CONCRETE PAD FOR AIR COMPRESSOR/VACUUM AND TRASH RECEPTACLE. SEE ARCHITECTURAL GAS STATION DRAWINGS FOR DETAILS.
- ⑤ PROPANE EXCHANGE BIN AND BOLLARDS REFER TO GAS STATION ARCHITECTURAL DRAWINGS.
- ⑥ 4" CONCRETE SIDEWALK ON 4" BASE MATERIAL REFER TO GAS STATION STRUCTURAL DRAWINGS FOR SIDEWALK DETAILS.
- ⑦ 8" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- ⑧ 6" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- ⑨ CANOPY INSTALLED BY FUEL SYSTEM CONTRACTOR. (REFER TO FUEL ISLAND CANOPY DRAWINGS).
- ⑩ ICE STORAGE CHEST.
- ⑪ SEASONAL OUTDOOR SALES AREA.
- ⑫ DIESEL/GASOLINE DISPENSER CLOSEST TO STORAGE TANKS.
- ⑬ UST VENT RISER, BY FUEL SYSTEM CONTRACTOR.
- ⑭ DELIVERY RAMP STORAGE.
- ⑮ TRANSFORMER PAD.
- ⑯ 7" CONCRETE ON 4" AGGREGATE OR PEA STONE BASE.
- ⑰ THICKENED BITUMINOUS PAVEMENT EDGE. SEE DETAIL C5 ON C701 (TYP. ALONG ALL CONCRETE).
- ⑱ ACCESSIBLE CURB RAMP. SEE DETAIL A2 ON C702.
- ⑲ ACCESSIBLE STANDARD PARKING SPACES. SEE DETAILS ON C701.
- ⑳ 15 LF OF DETECTABLE WARNING SURFACE.
- ㉑ (5) BOLLARDS ALONG FRONT OF BUILDING. SEE ARCHITECTURAL.
- ㉒ 2' CHAMFER

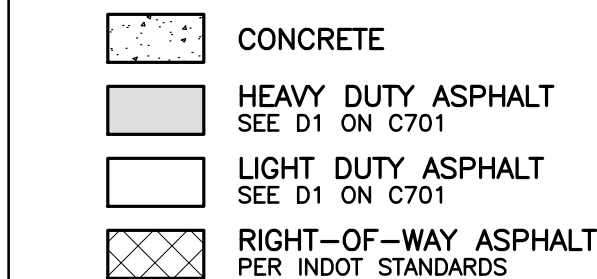
*SIDEWALK DIMENSIONS TO OUTSIDE OF WALL



GENERAL NOTES

1. NO DIMENSION MAY BE SCALED. REFER UNCLEAR ITEMS TO THE ENGINEER FOR INTERPRETATION.
2. DIMENSIONS AND/OR COORDINATES ARE TO BACK OF CURB, CENTERLINE OF BUILDING COLUMN LINE (INSIDE FACE OF PRECAST), EDGE OF PAVEMENT OR CENTER OF STRUCTURE OR CENTERLINE BUILDING DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
3. BUILDING SLABS, UNDERGROUND THICKNESS AND LOCATIONS AS SHOWN FOR REFERENCE. VERIFY WITH STRUCTURAL DRAWINGS.
4. REFER TO SHEET C500, C501 FOR STRIPING/SIGNAGE, AND PARKING COUNT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING ACCOMPLISH ALL WORK INDICATED ON PLANS AND PERFORM REQUIRED COMPACTION OPERATIONS.
6. PROVIDE ADEQUATE BARRICADES AT DRIVES, ENTRANCES, ELEVATIONS AND OTHER OPENINGS TO KEEP OUT UNAUTHORIZED PERSONS AND FOR PUBLIC SAFETY AND TRAFFIC CONTROL. SAFETY PROVISIONS OF APPLICABLE LAWS SHALL BE OBSERVED AT ALL TIMES. BARRICADES LEFT IN PLACE AT NIGHT SHALL BE LIGHTED.
7. NO EQUIPMENT OR MATERIAL STORAGE IS PERMITTED IN THE RIGHT-OF-WAY.
8. WORK SHALL CONFORM TO THE REQUIREMENTS OF GOVERNING AGENCIES HAVING JURISDICTION. GRADING, PAVING AND MATERIALS SHALL COMPLY WITH THE STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AS WELL AS PROJECT SPECIFICATIONS AND DRAWINGS. IN CASE OF DISCREPANCIES BETWEEN REQUIREMENTS, THE MORE STRINGENT SHALL APPLY.
9. EXTERIOR CONCRETE SLABS ADJACENT TO BUILDING SHALL BE PLACED ON 6" STRUCTURAL CURB, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS.
10. AGGREGATE TO EXTEND 12" BEYOND BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED. SEE DETAIL D1 AND D3 ON SHEET C701.
11. ALL RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
12. CONTRACTOR RESPONSIBLE FOR DEVELOPMENT AND APPROVAL OF MAINTENANCE OF TRAFFIC PLANS FOR INDIANA DEPARTMENT OF TRANSPORTATION AND MUTCD STANDARDS.

PAVEMENT LEGEND



PERMIT SET - NOT FOR CONSTRUCTION

meijer

STORE FRK
CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DAT

CONSTRUCTION MANAGED B

DESIGNED BY: 
WOOLPERT
DESIGN | GEOSPATIAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

SITE LAYOUT / PAVEMENT PLAN

DRAWN BY **SMB** ISSUE **1** ISSUE DATE **05/14/15** SHEET NO. **C201**
 CHECKED BY **BJH** MEUER PROJECT NO. WOOLPERT PROJECT NO. **74485**
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GRADES AT GRADE LEVEL RECEIVING

SCALE: 1" = 20'

A1/C300



GRADES AT ELECTRIC ENCLOSURE

SCALE: 1" = 20'

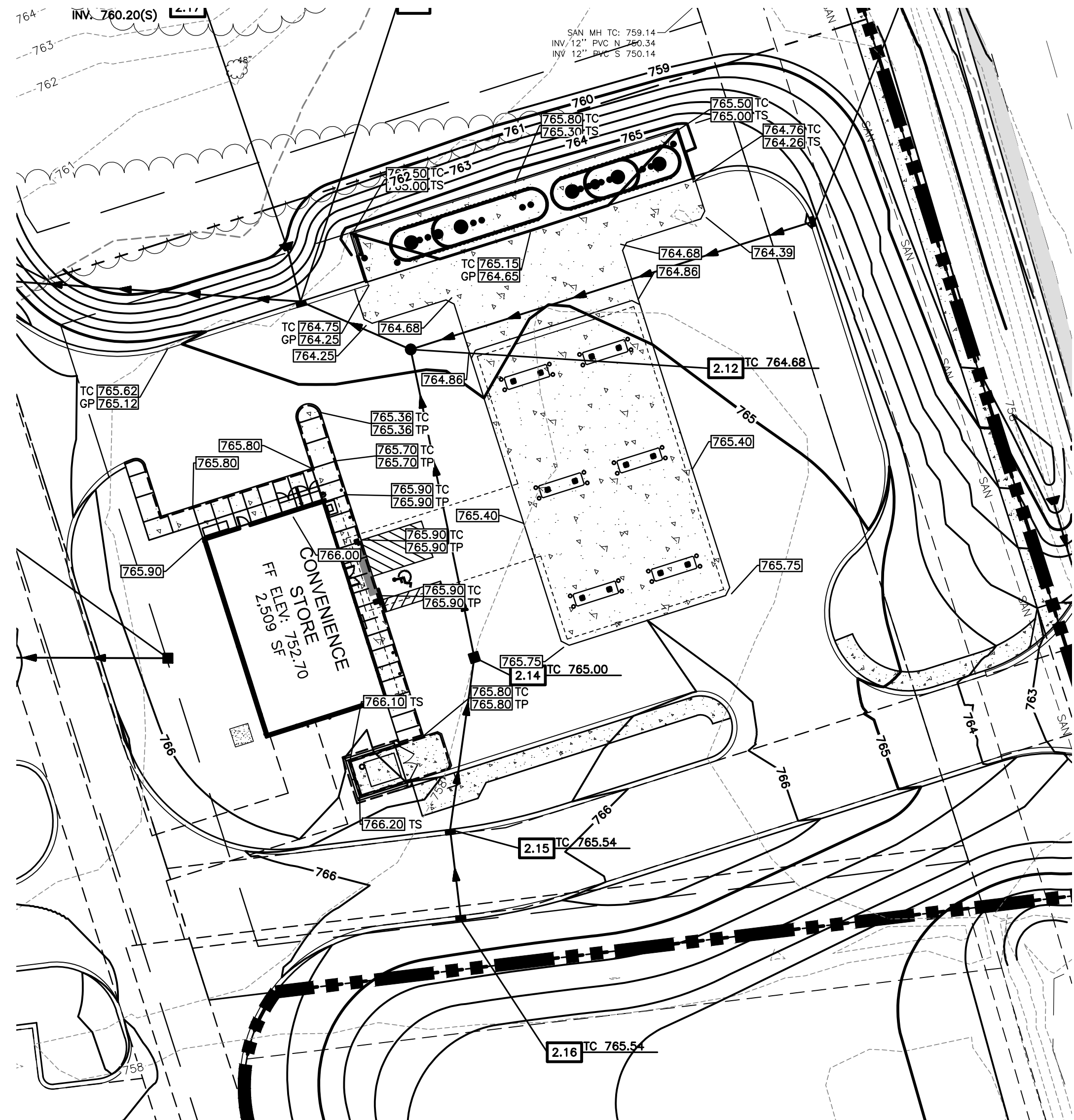
A1/C300



PHARMACY DRIVE-UP GRADING PLAN

SCALE: 1" = 30'

A1/C300



TYPICAL GRADES AT DOOR

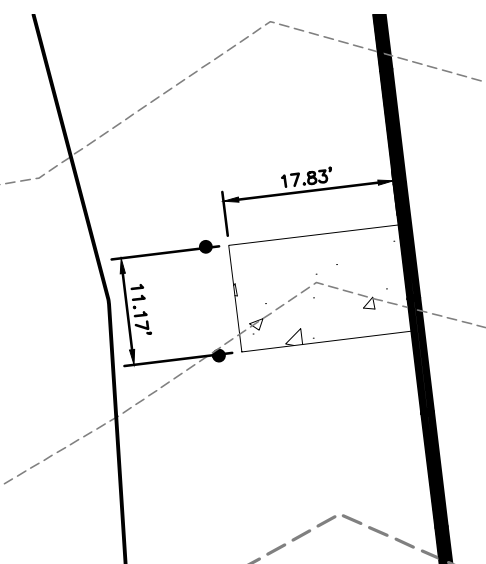
SCALE: 1" = 10'

A1/C300

ENLARGED CONVENIENCE STORE AND ENTRANCE

SCALE: 1" = 30'

A1/C200



EMERGENCY SPILLWAY SECTION - NORTH POND

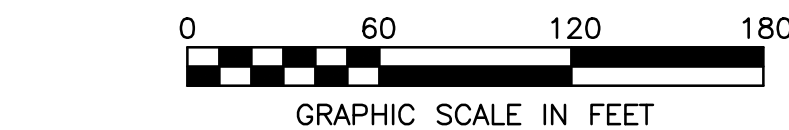
NTS

C1/C300

GRADES AT FIRE PUMP HOUSE

SCALE: 1" = 20'

A1/C300



GRADING LEGEND

- | | |
|------------|-----------------------------|
| --- | EXISTING BOUNDARY |
| --- | PROPOSED BOUNDARY |
| ---796--- | EXISTING 1' CONTOUR |
| ---795--- | EXISTING 5' CONTOUR |
| ---795--- | PROPOSED 1' CONTOUR |
| ---795--- | PROPOSED 5' CONTOUR |
| -x- | PROPOSED FENCE LINE |
| 5.9 | PROPOSED STORM ID |
| ■ | PROPOSED CATCH BASIN |
| ■ | PROPOSED CURB INLET |
| ● | PROPOSED STORM MANHOLE |
| ► | PROPOSED FLARED END SECTION |

GRADING NOTES

1. ALL SPOT ELEVATIONS ARE TO:
 TOP OF PAVEMENT - (TP)
 TOP OF SLAB - (TS)
 TOP OF CURB - (TC)
 TOP OF WALL - (TW)
 GUTTER PAN - (GP)
- UNLESS NOTED OTHERWISE.
2. CONTOURS SHOWN ARE FOR REFERENCE ONLY.
3. PROVIDE POSITIVE DRAINAGE AT ALL TIMES TO ENSURE NO STANDING WATER WITHIN PAVEMENT OR GREEN AREAS.
4. FOR ALL CURB ISLANDS, CENTER OF ISLANDS TO BE A MINIMUM OF 6" HIGHER THAN TOP OF CURB.
5. SEE "TYPICAL PAVEMENT AT MH AND GB" DETAIL C4 ON C701 FOR SPECIAL GRADING REQUIREMENTS AROUND STRUCTURES.
6. RESTORE ALL STREET SURFACES, DRIVEWAYS, CULVERTS, ROADSIDE DRAINAGE DITCHES, AND OTHER PUBLIC OR PRIVATE STRUCTURES THAT ARE DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO MATCH AT A MINIMUM EXISTING CONDITIONS.
7. CONTRACTOR'S MANNER AND METHOD OF INGRESS AND EGRESS WITH RESPECT TO THE PROJECT AREAS SHALL IN NO WAY PROHIBIT OR DISTURB NON-PEDESTRIAN OR VEHICULAR TRAFFIC IN THE VICINITY AND IS SUBJECT TO REGULATION AND WRITTEN APPROVAL OF APPROPRIATE GOVERNING AGENCIES.
8. FINISHED SUBGRADE SURFACE SHALL NOT BE MORE THAN 0.1 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUBGRADE ELEVATIONS AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISHED DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION.
9. TO THE BEST KNOWLEDGE OF THE ENGINEER, NO ABANDONED WELLS OR SINKHOLES EXIST ONSITE.



meijer

STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY

DESIGNED BY:



WOOLPERT

DESIGN | GEOSPATIAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

SITE GRADING/DRAINAGE PLAN

DRAWN BY: SMB
 ISSUE: 1
 ISSUE DATE: 05/14/15
 SHEET NO.: C301
 CHECKED BY: BJH
 MEIJER PROJECT NO.: 74485
 WOOLPERT PROJECT NO.:
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C301

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SUMMARY OF ACREAGE	
TOTAL PROJECT AREA	29.1
PERMITTED DISTURBED AREA ON MEIJER PROPERTY	23.5
PERMITTED DISTURBED AREA ON OFF-SITE AREAS	5.6
TOTAL PERMITTED DISTURBED AREA FOR PROJECT	29.1

10-YEAR RUNOFF DISCHARGES (cfs)	NORTH	SOUTH
PRE-CONSTRUCTION RUNOFF DISCHARGE	5.41	11.19
POST-CONSTRUCTION RUNOFF DISCHARGE	1.72	2.84

- CONSTRUCTION & BEST MANAGEMENT PRACTICE (BMP) IMPLEMENTATION SEQUENCE
- PHASE 1
1. POST NOI AT CONSTRUCTION ENTRANCE, VISIBLE FROM THE PUBLIC ROAD.
 2. STAKE THE PROJECT LIMITS OF DISTURBANCE AS SHOWN ON THE SWPPP DRAWING.
 3. BEGIN CLEARING AND GRUBBING ONLY THE MINIMUM AREA NECESSARY FOR INSTALLATION BMPs. CLEAR AREAS REQUIRED FOR BMPs AS EACH BMP IS BEING INSTALLED.
 4. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
 5. INSTALL PERIMETER CONTROLS.
 6. INSTALL AND STABILIZE TEMPORARY STORMWATER CONVEYANCES AND INSTALL CHECK DAMS.
 7. CONSTRUCT TEMPORARY SEDIMENT BASINS WITH TEMPORARY SKIMMER OUTLET STRUCTURES. STABILIZED SEDIMENT BASINS IMMEDIATELY UPON COMPLETION OF BASIN CONSTRUCTION.
 8. INSTALL ENERGY DISSIPATION AT THE OUTLETS OF EACH BASIN.
- PHASE 2
1. BEGIN CLEARING AND GRUBBING THE SITE (PHASE CLEARING AND GRUBBING TO THE EXTENT PRACTICAL TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ANY GIVEN TIME).
 2. BEGIN GRADING THE SITE.
 3. START CONSTRUCTION OF BUILDING PADS, FOUNDATIONS, AND BUILDINGS.
 4. IMPLEMENT TEMPORARY STABILIZATION MEASURES ON ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT RESUME FOR 15 DAYS OR MORE. IMPLEMENTATION OF TEMPORARY

- STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN SEVEN (7) DAYS FROM WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASED ON ANY PORTION OF THE SITE.
5. INSTALL UTILITIES, STORM SEWERS, WATER SUPPLY LINES, SANITARY SEWERS, ETC.
 6. INSTALL INLET PROTECTION MEASURES AT STORM SEWER INLETS AS EACH INLET STRUCTURE IS INSTALLED.
 7. PREPARE SITE FOR PAVING AND PAVE SITE.
 8. INSTALL LANDSCAPING.
 9. BEGIN GRADING, BUILDING CONSTRUCTION AND INSTALLATION OF PERMANENT STABILIZATION MEASURES ON ALL DISTURBED AREAS. FINAL STABILIZATION OF DISTURBED AREAS MUST BE INITIATED IMMEDIATELY AND COMPLETED WITH SEVEN (7) CALENDAR DAYS FROM WHEN CLEARING, GRADING, EXCAVATING, OR OTHER EARTH-DISTURBING ACTIVITIES HAVE CEASED ON ANY PORTION OF THE SITE.
 10. REMOVE ALL REMAINING TEMPORARY BMPs UPON APPROVAL OF MEIJER, OR ITS DESIGNATED REPRESENTATIVE.
 11. PERMANENTLY STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPs.
 12. NOTIFY MEIJER, OR ITS DESIGNATED REPRESENTATIVE, OF FINAL SITE STABILIZATION.
 13. MEIJER, OR ITS DESIGNATED REPRESENTATIVE, TO SUBMIT NOTICE OF TERMINATION TO THE PERMITTING AGENCY.
- NOTE: THE CONTRACTOR MAY COMPLETE CONSTRUCTION ACTIVITIES CONCURRENTLY PROVIDED ALL PRECEDING BMPs AND STABILIZATION ACTIVITIES HAVE BEEN COMPLETELY INSTALLED.

ALL AREAS THAT ARE LEFT UNDISTURBED FOR 7 DAYS SHALL RECEIVE SEED AND MULCH.

ESTIMATED SWPPP IMPLEMENTATION SCHEDULE												
ACTIVITY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STABILIZED CONSTRUCTION ENTRANCE												
INITIAL TEMPORARY BMPs (E.G. SILT FENCE)												
SEDIMENT CONTROL BASIN												
CLEARING AND GRUBBING												
ROUGH GRADING												
STORM SEWERS												
FOUNDATION/BUILDING CONSTRUCTION												
FINAL GRADING												
PERMANENT STORMWATER CONTROLS												
FINAL STABILIZATION												
NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR ESTIMATED PROJECT SCHEDULE AT ONSET OF CONSTRUCTION												

LEGEND

LIMITS OF DISTURBANCE

SILT FENCE

INLET PROTECTION

TREE PROTECTION

PROPOSED STORM STRUCTURE

EROSION CONTROL BLANKET

TEMPORARY CONSTRUCTION ENTRANCE

PERMANENT SEEDING

TEMPORARY ROCK DONUT

ROCK CHUTE

PARCEL BOUNDARY

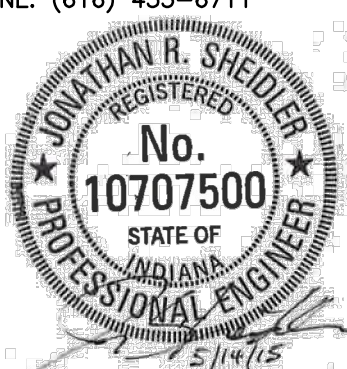
EXISTING CONTOURS

PROPOSED CONTOURS

EXISTING STORM SEWER

PROPOSED STORM SEWER

- GENERAL EROSION CONTROL NOTES
1. THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.
 2. PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
 3. THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
 4. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
 5. T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
 6. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
 7. JOHNSON COUNTY HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FILED AS CONDITIONS WARRANT.
 8. SEE SHEET C306 & C307 FOR EROSION CONTROL DETAILS.
 9. EROSION CONTROL BLANKET TO BE PLACED ON ALL SLOPES STEEPER THAN 4H : 1V.
 10. OWNER CONTACT:
JEFF CALIGURI
MEIJER STORES, LIMITED PARTNERSHIP
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
PHONE: (616) 453-6711



PERMIT SET - NOT FOR CONSTRUCTION

meijer

STORE FRK
CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711



DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

STORMWATER POLLUTION PREVENTION PLAN
PHASE 2

DRAWN BY: SMB
ISSUE: 1
ISSUE DATE: 05/14/15
SHEET NO.: C303

CHECKED BY: JRN
MEIJER PROJECT NO.: 74485
WOOLPERT PROJECT NO.: 74485

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EROSION CONTROL NOTES

- A1 PLAN INDEX ITEMS RELATED TO THE SWPPP ARE SHOWN AS NOTES ON THIS SHEET.
- A2 NO PLAT IS INCLUDED WITH THIS SUBMITTAL.
- A3 THIS PROJECT INVOLVES THE CONSTRUCTION OF AN APPROXIMATELY 192,940 SF MEIJER STORE AND A 2,509 SF CONVENIENCE STORE WITH ASSOCIATED ACCESS DRIVES AND PARKING.
- A4 THE VICINITY MAP IS LOCATED ON THE COVER SHEET.
- A5 LEGAL DESCRIPTION IS INCLUDED ON THE COVER SHEET.
- LATITUDE 39°30'21" N, LONGITUDE 86°04'22" W.
- A6 ALL IMPROVEMENTS AND BOUNDARY IS SHOWN ON THE SITE PLAN.
- A7 HYDROLOGIC UNIT CODE: 05120204090030.
- A8 THERE ARE NO STATE OR FEDERAL WATER QUALITY PERMITS REQUIRED FOR THIS SITE.
- A9 PROPOSED DETENTION POND OUTFLOWS TO COMMERCE DRIVE STORM SEWER SYSTEM.
- A10 PER THE NATIONAL WETLAND INVENTORY, THERE ARE NO POTENTIAL WETLANDS.
- A11 THE ULTIMATE RECEIVING WATER IS THE YOUNGS CREEK – BREWERS/CANARY DITCHES.
- A12 THERE ARE NO DISCHARGES TO GROUNDWATER KNOWN ON THIS PROPERTY OR DIRECTLY DOWNSTREAM.
- A13 NO FLOODPLAIN, FLOODWAYS, OR FLOODWAY FRINGES ARE ON THE PROPERTY.

A14	PRE-CONSTRUCTION PEAK DISCHARGE:	(10-YR)	NORTH 5.41 CFS	EAST 4.36 CFS	SOUTH 11.19 CFS	SOUTHWEST 0.23 CFS	NORTHEAST 0.19 CFS
		(100-YR)	13.82 CFS	10.68 CFS	27.88 CFS	0.61 CFS	0.47 CFS
	POST-CONSTRUCTION PEAK DISCHARGE:	(10-YR)	1.72 CFS	0.00 CFS	2.84 CFS	0.00 CFS	0.00 CFS
		(100-YR)	5.02 CFS	0.00 CFS	5.68 CFS	0.00 CFS	0.00 CFS

A15 ADJACENT LAND USES:

NORTH: COMMERCIAL
SOUTH: RESIDENTIAL
EAST: COMMERCIAL
WEST: AGRICULTURAL

- A16 CONSTRUCTION LIMITS ARE SHOWN IN EROSION CONTROL PLAN SHEETS C302 & C303.
- A17 THE EXISTING VEGETATION IS GRASSED AREAS AND AGRICULTURE FIELDS.
- A18 SOILS INFORMATION: PLEASE SEE SOILS MAP LOCATED ON THIS SHEET.
- A19 ALL PROPOSED STORMWATER SYSTEMS ARE SHOWN ON THE GRADING AND UTILITY PLANS, C300 AND C301; C400 AND C401, RESPECTIVELY. SEE DETAILS ON DETAIL SHEETS C700–C704.
- A20 THE PLANNED OFF-SITE CONSTRUCTION ACTIVITIES INCLUDE ROAD IMPROVEMENTS, AND ADDITIONAL STORM SEWER.
- A21 THE PROPOSED STOCKPILE LOCATION FOR THIS PROJECT IS SHOWN ON SHEETS C302 & C303.
- A22 EXISTING TOPOGRAPHY IS SHOWN IN THE EXISTING CONDITIONS/DEMOLITION PLAN, C100.
- A23 PROPOSED CONTOURS AND SPOT SHOTS ARE PROVIDED ON THE GRADING PLAN, C300 AND C301.

CONSTRUCTION COMPONENT

- B1 POTENTIAL POLLUTANT SOURCES DURING CONSTRUCTION ACTIVITIES INCLUDE SEDIMENT, CONCRETE WASTE, WATER, TRASH, FOSSIL FUELS, OIL, GREASE, PAINT, EXPOSURE OF THESE POLLUTANTS TO STORMWATER RUNOFF SHOULD BE MINIMIZED BY PERFORMING ACTIVITIES SUCH AS EROSION CONTROL, EQUIPMENT STORAGE, REFUELING, MAINTENANCE AND PORT-A-LET PLACEMENT IN DESIGNATED AREAS AS SHOWN ON THE EROSION CONTROL PLAN.
- B2 A CONSTRUCTION SEQUENCE CAN BE FOUND ON THIS PLAN SHEET.
- B3 PLEASE REFER TO EROSION CONTROL PLAN, SHEETS C302 & C303, FOR THE LOCATION OF THE CONSTRUCTION ENTRANCE.
- B4 SEDIMENT CONTROL MEASURES FOR SHEET FLOW AREAS ARE TEMPORARY/PERMANENT SEEDING, SILT FENCE AND/OR COCONUT LOGS. SEE SEEDING SCHEDULE ON SHEET C305.
- B5 SEDIMENT CONTROL FOR CONCENTRATED FLOW AREAS INCLUDE EROSION CONTROL BLANKET AND PERMANENT SEEDING. DETAILS CAN BE FOUND ON SHEET C305. THE DETENTION POND MAY BE USED AS TEMPORARY SEDIMENT TRAPS DURING CONSTRUCTION.
- B6 INLET PROTECTION IS PROPOSED FOR ALL EXISTING AND PROPOSED INLETS IN AFFECTED AREA.
- B7 RUNOFF CONTROL MEASURES FOR SWALES INCLUDE PERMANENT SEEDING WITH EROSION CONTROL BLANKET. FOR END SECTIONS, TEMPORARY ROCK DONUTS HAVE BEEN SPECIFIED. FOR MORE PERMANENT EROSION CONTROL ON END SECTIONS, ROCK CHUTES (RIPRAP) ARE PROPOSED. DETAILS CAN BE FOUND ON SHEETS C305 & C306.
- B8 TEMPORARY ROCK DONUTS HAVE BEEN SPECIFIED AT OUTLET POINTS IN ORDER TO CONTROL SEDIMENT. ROCK CHUTES ARE PROPOSED FOR MORE PERMANENT SEDIMENT CONTROL. DETAILS CAN BE FOUND ON SHEET C306.
- B9 ROCK CHUTES ARE SPECIFIED FOR END SECTIONS. DETAIL CAN BE FOUND N SHEET C306.
- B10 SEE THE DETAIL SHEETS FOR THE CONSTRUCTION SPECIFICATIONS OF EACH MEASURE. SEE THE EROSION CONTROL PLAN FOR THE LOCATION OF ALL PROPOSED EROSION CONTROL MEASURES.
- B11 SEE SEEDING SCHEDULE DETAIL, EROSION CONTROL BLANKET STAPLE PATTERN ON SHEETS C305 AND C306.
- B12 SEE EROSION CONTROL INSTALLATION AND SEEDING SCHEDULE DETAILS ON SHEETS C305 AND C306.

B13 **MATERIAL HANDLING AND SPILL PREVENTION PLAN:**
IN ORDER TO MINIMIZE THE RELEASE OF POTENTIAL POLLUTANTS DURING CONSTRUCTION THE CONTRACTOR SHALL IMPLEMENT THIS MATERIAL HANDLING AND SPILL PREVENTION PLAN. THE CONTRACTOR SHALL REVIEW THIS PLAN WITH ALL SUBCONTRACTORS AND REQUIRE THAT THEY IMPLEMENT THE PLAN AS WELL. IF A SPILL SHOULD OCCUR PLEASE CONTACT THE APPROPRIATE AUTHORITIES BELOW:

EMERGENCY RESPONSE	911
FRANKLIN FIRE DEPARTMENT	(317) 736–3651
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	(888) 233–7745
JOHNSON COUNTY SURVEYOR'S OFFICE	(317) 346–4341

1. CONSTRUCTION EQUIPMENT

A. FUELING, LUBRICATION, AND FLUIDS: ALL OPERATIONS INVOLVING THE ADDITION OF FLUIDS TO EQUIPMENT SHOULD BE DONE IN ONE LOCATION, SO THAT SPILLS ARE LIMITED TO THAT SPECIFIC LOCATION. FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. IF AN OUTSIDE FUELING TANK IS PLANNED TO BE ON SITE, IT SHALL BE DOUBLE WALLED AND STORED IN THIS DESIGNATED AREA. THIS LOCATION IS AN AREA THAT WILL NOT ALLOW SPILLED FLUIDS TO MIGRATE INTO SUBSURFACE SOILS. IN THE EVENT OF A SPILL, THE FLUID SHALL IMMEDIATELY BE CLEANED UP BY REMOVING THE CONTAMINATED SOIL OR STONE WHICH SHALL BE DISPOSED OF IN AN ACCEPTABLE MANNER. SPILLS ON HARD SURFACES SHALL BE SOAKED UP BY AN ACCEPTABLE MATERIAL SUCH AS OIL DRY AND THE ABSORBENT MATERIAL DISPOSED OF IN A PROPER MANNER. THE SPILL SHALL ALSO BE REPORTED IMMEDIATELY TO THE CONTRACTOR'S SUPERINTENDENT.

B. EQUIPMENT REPAIR, ESPECIALLY WHEN FLUIDS MUST BE REMOVED FROM THE EQUIPMENT OR THE POSSIBILITY OF FLUID SPILLS IS HIGH, SHOULD ALWAYS BE DONE OFFSITE AT A FACILITY THAT IS MORE SUITABLE THAN A CONSTRUCTION SITE TO HANDLE SPILLS. WHEN EQUIPMENT MUST BE REPAIRED ONSITE, IT SHOULD BE MOVED TO THE MAINTENANCE AND FUELING AREA IF POSSIBLE. OTHERWISE, SUITABLE ON SITE CONTAINERS SHOULD BE PLACED UNDER THE EQUIPMENT DURING REPAIR TO CATCH ANY SPILLED FLUIDS AND THESE FLUIDS SHOULD BE DISPOSED OF IN A PROPER MANNER.

C. ALL REUSABLE FLUID CONTAINERS, SUCH AS GASOLINE CANS, SHALL BE INSPECTED FOR LEAKS EACH TIME THEY ARE USED. IF LEAKS ARE FOUND, THE FLUID SHALL BE REMOVED FROM THE CONTAINER IN A PROPER MANNER AND THE CONTAINER DISPOSED OF IN AN ACCEPTABLE MANNER. EMPTY DISPOSABLE CONTAINERS, SUCH AS GREASE TUBES AND LUBRICATING OIL AND BRAKE FLUID CONTAINERS, AND THEIR PACKAGING, SHALL BE DISPOSED OF IN A PROPER MANNER AND SHALL NOT BE LEFT ON THE GROUND OR IN THE OPEN ON THE CONSTRUCTION SITE.

2. CONSTRUCTION MATERIALS AND THEIR PACKAGING

A. EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE IMPLEMENTED PRIOR TO AND DURING CONSTRUCTION IN THE PROPER SEQUENCING TO MINIMIZE SOIL EROSION. EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED AS DESCRIBED ELSEWHERE IN THESE PLANS. EXCESSIVE DUSTING OF SOIL ON THE SITE SHALL BE MINIMIZED BY REDUCING CONSTRUCTION TRAFFIC ACROSS BARE SOIL DURING DRY AND/OR WINDY WEATHER, AND BY APPLYING WATER OR OTHER ACCEPTABLE DUST CONTROL MEASURES TO THE SOIL UPON COMPLETION OF CONSTRUCTION AND SUITABLE ESTABLISHMENT OF PERMANENT VEGETATION. TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE AND INLET PROTECTION DEVICES SHALL BE REMOVED IN A MANNER TO MINIMIZE ADDITIONAL LAND DISTURBANCE. ANY AREAS DISTURBED BY THESE OPERATIONS SHALL BE PROPERLY REVEGETATED.

B. LARGE WASTE MATERIALS CREATED BY CUTTING, SAWING, DRILLING, OR OTHER OPERATIONS SHALL BE PROPERLY DISPOSED OF IN SUITABLE ONSITE WASTE CONTAINERS. THE SITE SHALL BE CHECKED AT THE END OF THE DAY, AT A MINIMUM, AND ALL WASTE MATERIALS, INCLUDING THOSE BLOWN ACROSS OR OFF THE SITE BY WIND, SHALL BE PICKED UP AND DISPOSED OF IN SUITABLE CONTAINERS. WHERE POSSIBLE, OPERATIONS SUCH AS SAWING OR OTHER SMALL PARTICLES SHOULD BE PERFORMED IN ONE SPOT IN AN AREA PROTECTED FROM WIND, AND WASTE PARTICLES COLLECTED AND DISPOSED OF FREQUENTLY TO MINIMIZE WIND DISPERSAL. PACKAGING USED TO TRANSPORT MATERIALS TO THE SITE FOR CONSTRUCTION OF THE FACILITY SHALL BE DISPOSED OF PROPERLY. WHETHER THE MATERIAL IS TAKEN OUT OF ITS PACKAGE AND INCORPORATED INTO THE PROJECT IMMEDIATELY OR STORED ONSITE FOR FUTURE USE, PACKAGED MATERIALS STORED ONSITE SHALL BE INSPECTED REGULARLY AND ANY LOOSE PACKAGING SHALL BE REPAIRED OR DISPOSED OF PROPERLY.

C. ALL DEWATERING ACTIVITIES SHALL BE DONE IN ACCORDANCE TO GOOD EROSION CONTROL PRACTICES. THESE PRACTICES SHOULD INCLUDE THE USE OF DIRT BAGS SUCH AS DANDY DIRT BAGS. THE USE OF THESE TYPES OF DEWATERING DEVICES WILL REMOVE LARGE QUANTITIES OF SILT, SEDIMENT, AND DIRT AND PREVENT THESE MATERIALS FROM ENTERING THE STORM SEWER SYSTEM.

D. IF THE USE OF LIME IS USED TO STABILIZE THE SOIL OF THE SITE THEN ALL CONSTRUCTION EQUIPMENT USED SHALL BE CLEANED OF ALL EXCESS MATERIAL WITH WATER IN THE CONSTRUCTION STAGING AREA AS SHOWN WITHIN THESE PLANS.

E. NUTRIENTS AND FERTILIZERS SHALL ONLY BE USED TO ESTABLISH RAPID VEGETATION. WHEN THESE PRODUCTS ARE UTILIZED, THE USER SHOULD PAY STRICT ATTENTION TO THE PRODUCTS RECOMMENDED USAGE.

3. CONCRETE WASTE, WATER

A. ALL CONCRETE WASTE, WATER SHALL BE DISPOSED OF IN THE DESIGNATED CONCRETE WASHOUT AREAS SHOWN ON SHEET C302. CONCRETE WASTE, WATER SHALL BE DISCHARGED INTO A 4'-HIGH, 10'-DIAMETER DOUGHNUT-TYPE MULCH BERM CONSTRUCTED OVER A POLYETHYLENE LINER. CONTRACTOR SHALL INSPECT THIS AREA ON A DAILY BASIS AT A MINIMUM. WHEN THIS AREA BECOMES FULL, THE POLLUTANTS SHALL BE EXCAVATED, PLACED IN AN ACCEPTABLE CONTAINER AND DISPOSED OF IN A PROPER MANNER.

4. PAINT PRODUCTS

A. ALL EXCESS PAINT AND THEIR RELATED PRODUCTS SHALL BE DISPOSED OF IN THE MANNER BY WHICH THE MANUFACTURER SUGGESTS. UNRELATED PRODUCTS SUCH AS PAINT OR THEIR RELATED PRODUCTS BE CLEANED OR DISPOSED OF IN SOIL, SANITARY SEWERS, STORM SEWERS OR DETENTION BASINS. ANY VIOLATIONS OF THIS SHALL BE REPORTED TO THE JOB SUPERINTENDENT.

IN THE EVENT OF ACCIDENTAL CONTAMINATION, ALL EFFORTS SHOULD BE MADE TO REMOVE CONTAMINANTS IN AN APPROPRIATE MANNER. THE FIRE DEPARTMENT SHOULD BE CONTACTED IMMEDIATELY TO DETERMINE IF FURTHER MEASURES ARE NEEDED.

B14 PROJECT SITE OWNER OR THEIR REPRESENTATIVE, KNOWLEDGEABLE IN EROSION AND SEDIMENT CONTROL, WILL INSPECT THE SITE FOR STORMWATER POLLUTION PREVENTION DEFICIENCIES AT LEAST WEEKLY AND AGAIN WITHIN 24 HOURS OF EVERY ½ INCH RAIN EVENT. SEE EROSION CONTROL SCHEDULE ON SHEET C306 FOR MAINTENANCE DETAILS.

B15 NOT APPLICABLE.

POST CONSTRUCTION COMPONENTS

C1 EXPECTED POLLUTANTS IN THE POST-DEVELOPED CONDITION ARE: SEDIMENT, OIL, GREASE, ANTIFREEZE, AND GASOLINE MAY OCCUR IN LIMITED AMOUNTS AS A RESULT OF THIS PROJECT. THE ONLY OTHER REASONABLY FORESEEN POLLUTION FROM THIS SITE WILL BE LITTER AND TRASH DUMPED BY OTHERS.

C2 TO TREAT 80% TSS FROM THE SITE, THE POST CONSTRUCTION BMP IS THE WET DETENTION POND WITH CHANNEL PROTECTION VOLUME. THE POND IS SIZED AND ORIFICES SET PER THE FRANKLIN STORMWATER MANUAL IN ORDER TO ACHIEVE WATER QUALITY, WITH THE TOTAL WATER QUALITY VOLUME EQUAL TO 0.5 INCHES OF STORAGE PER ACRE. A DRY DETENTION BASIN IS ALSO DESIGNED TO REMOVE 80% TSS GIVEN THE PROPOSED FLOW THROUGH RATE PER THE FRANKLIN STORMWATER MANUAL.

C3 TO TREAT 80% TSS FROM THE SITE, A WET DETENTION POND WITH CHANNEL PROTECTION VOLUME. THE WET POND WILL PROVIDE SEDIMENT REMOVAL AND DILUTION OF POLLUTANTS PRIOR TO DISCHARGING FROM THE PROPERTY.

C4 SEE GRADING, EROSION CONTROL AND UTILITY PLANS FOR LOCATION AND SPECIFICATIONS OF THE WET POND. SEE WET POND TYPICAL SECTION DETAIL ON SHEET C301.

C5 MAINTENANCE OF ALL STORMWATER POLLUTION PREVENTION MEASURES WILL BE THE RESPONSIBILITY OF THE PROJECT OWNER, MEIJER STORES, INC., UTILIZING PROCEDURES OUTLINED ON THESE PLANS. THE MAINTENANCE GUIDELINES CONSIST MOSTLY OF GOOD HOUSEKEEPING MEASURES. ANY GRASSED OR VEGETATED AREAS THAT EXPERIENCE EROSION FROM RAINFALL EVENTS SHOULD BE REPAIRED AND REVEGETATED AS SOON AS POSSIBLE. TRASH OR LITTER SHOULD BE PICKED UP AND PROPERLY DISPOSED TO PREVENT IT FROM GETTING INTO THE STORM DRAINAGE SYSTEM AND DOWNSTREAM WATERWAYS. SEE GRADING AND UTILITY PLAN FOR THE LOCATION OF THE WET POND. REMOVAL OF SEDIMENT ACCUMULATION FROM THE FOREBAY SHOULD OCCUR WHEN 50% OF THE STORAGE VOLUME IS LOST. TO REMOVE SEDIMENT ACCUMULATION, DEWATER THE FOREBAY AND REMOVE OF SEDIMENT WITH A BACKHOE.

EROSION OF THE STEEP BANKS OF ANY BERMS OR SWALES SHOULD BE ADDRESSED AS SOON AS IT BECOMES VISIBLE BY FILLING THE ERODED AREA WITH SUITABLE SOIL AND ESTABLISHING VEGETATION IMMEDIATELY, PREFERABLY BY SODDING.

PAVEMENT AREAS SHOULD BE MONITORED FOR POLLUTANTS. ANY LARGE QUANTITIES OF FLUIDS SUCH AS OIL, ANTIFREEZE, BRAKE FLUID, ETC. FOUND ON THE PAVEMENT SHOULD BE REPORTED TO THE OWNER. THE OWNER SHOULD CLEAN THE POLLUTANTS AND PREVENT THE SOURCE FROM ENTERING THE SITE IN THE FUTURE. FINALLY, PAVEMENTS SHOULD ALSO BE MONITORED FOR SEDIMENT COMING FROM VEGETATIVE AREAS. IF POST-CONSTRUCTION EROSION IS OCCURRING, THE SOURCE SHOULD BE RE-STABILIZED AS SOON AS POSSIBLE BY SEEDING, SODDING OR MULCHING.

OWNER CONTACT:
JEFF CALIGURI
MEIJER STORES, LIMITED PARTNERSHIP
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
PHONE: (616) 453–6711

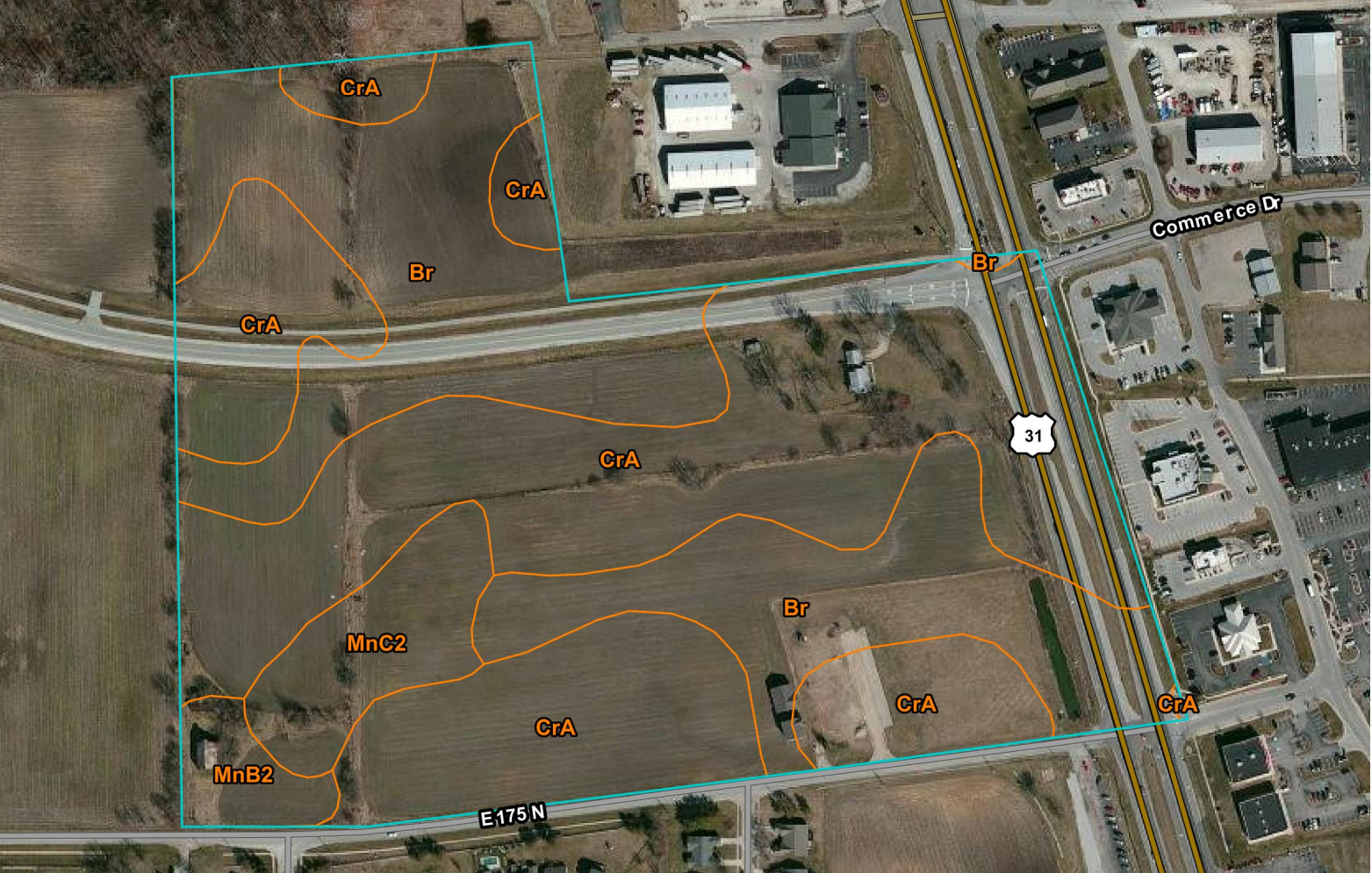
SOILS DATA

CrA – CROSBY SILT LOAM, FINE LOAMY SUBSOIL, 0–2% SLOPES

Br – BROOKSTON SILTY CLAY LOAM

MnC2 – MIAMI SILT LOAM, 6–12% SLOPES, ERODED

MnB2 – MIAMI SILT LOAM, 2–6% SLOPES, ERODED



SOILS MAP

NOT TO SCALE

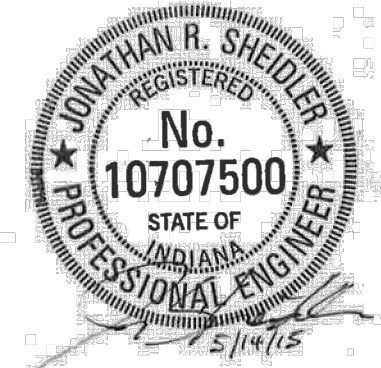
ALL AREAS THAT ARE LEFT UNDISTURBED FOR 7 DAYS SHALL RECEIVE SEED AND MULCH.



GRAPHIC SCALE IN FEET

GENERAL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL CONTROL WASTE, GARBAGE, DEBRIS, WASTEWATER, AND OTHER SUBSTANCES ON THE SITE IN SUCH A WAY THAT THEY SHALL NOT BE TRANSPORTED FROM THE SITE BY THE ACTION OF WINDS, STORMWATER RUNOFF, OR OTHER FORCES. PROPER DISPOSAL OR MANAGEMENT OF ALL WASTES AND UNUSED BUILDING MATERIALS, APPROPRIATE TO THE NATURE OF THE WASTE OR MATERIAL, IS REQUIRED.
- PUBLIC OR PRIVATE ROADWAYS SHALL BE KEPT CLEARED OF ACCUMULATED SEDIMENT. BULK CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING THE AREA WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE POINT OF LIKELY ORIGIN OR OTHER SUITABLE LOCATION.
- THIS EROSION CONTROL PLAN SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE. ALL MEASURES INVOLVING EROSION CONTROL PRACTICES SHALL BE INSTALLED UNDER THE GUIDANCE OF QUALIFIED PERSONNEL EXPERIENCED IN EROSION CONTROL, AND FOLLOWING THE PLANS AND SPECIFICATIONS INCLUDED HEREIN.
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL FROM THE INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (IDEM).
- T.C. SHALL INDICATE THE ELEVATION THAT WATER WOULD ENTER A STRUCTURE WHEN STRUCTURE IS NOT A CURB INLET. T.C. SHALL INDICATE TOP OF CURB WHEN STRUCTURE IS A CURB INLET.
- ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE "INDIANA STORM WATER QUALITY MANUAL" AND THE SCS "FIELD OFFICE TECHNICAL GUIDE".
- JOHNSON COUNTY HAS THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES IN THE FILED AS CONDITIONS WARRANT.
- SEE SHEET C306 & C307 FOR EROSION CONTROL DETAILS.
- EROSION CONTROL BLANKET TO BE PLACED ON ALL SLOPES STEEPER THAN 4H : 1V.
- OWNER CONTACT:
JEFF CALIGURI
MEIJER STORES, LIMITED PARTNERSHIP
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
PHONE: (616) 453–6711



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2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

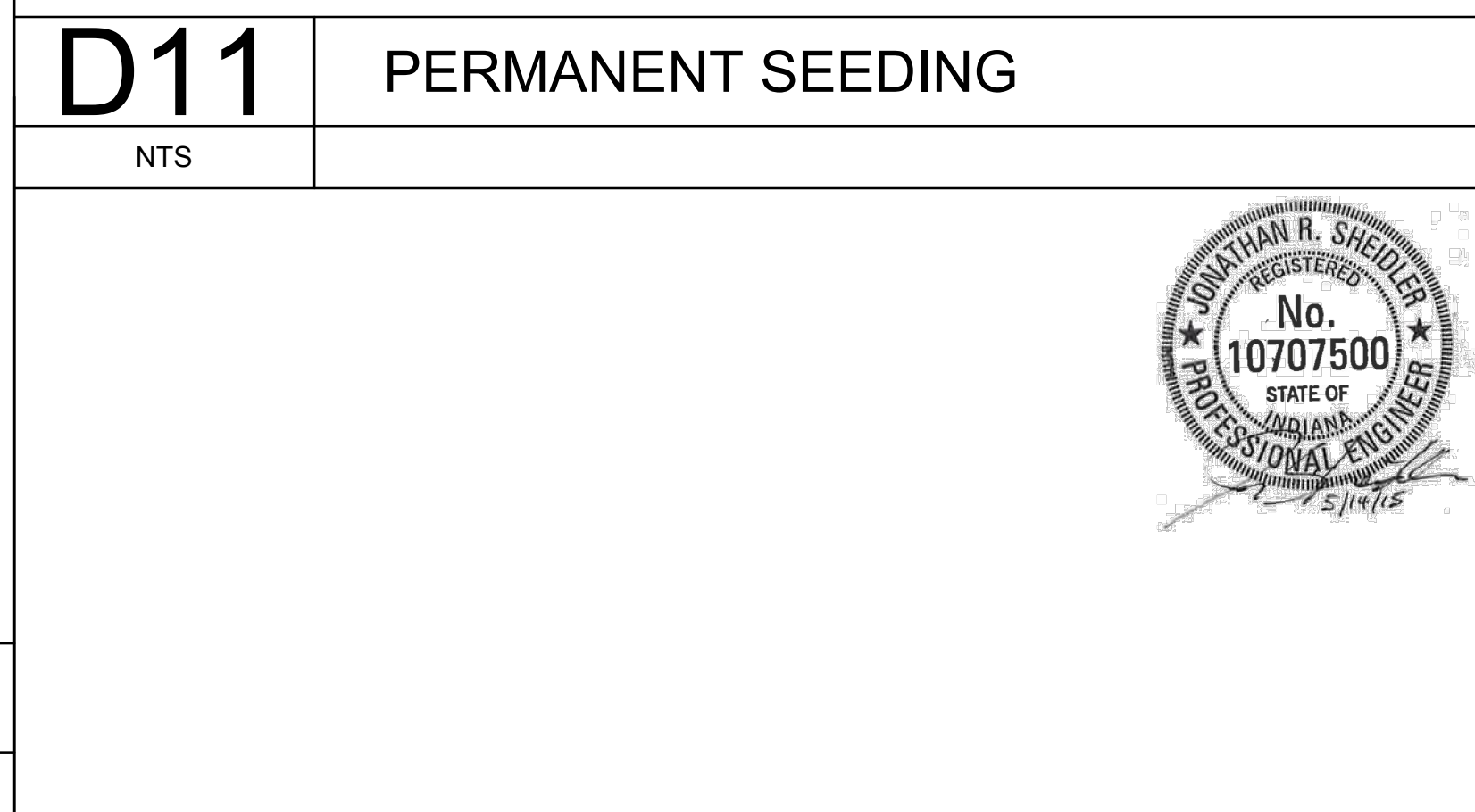
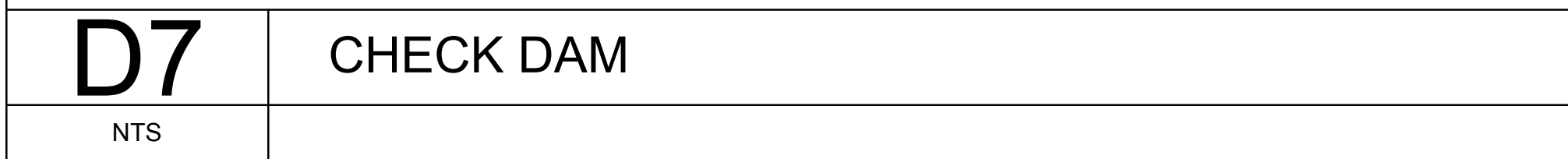
CONSTRUCTION MANAGED BY:

DESIGNED BY: 7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805


STORMWATER POLLUTION PREVENTION PLAN

DRAWN BY: SMB
ISSUE: 1
ISSUE DATE: 05/14/15
SHEET NO.: C304
CHECKED BY: JRN
MEIJER PROJECT NO.: 74485
WOOLPERT PROJECT NO.: 74485

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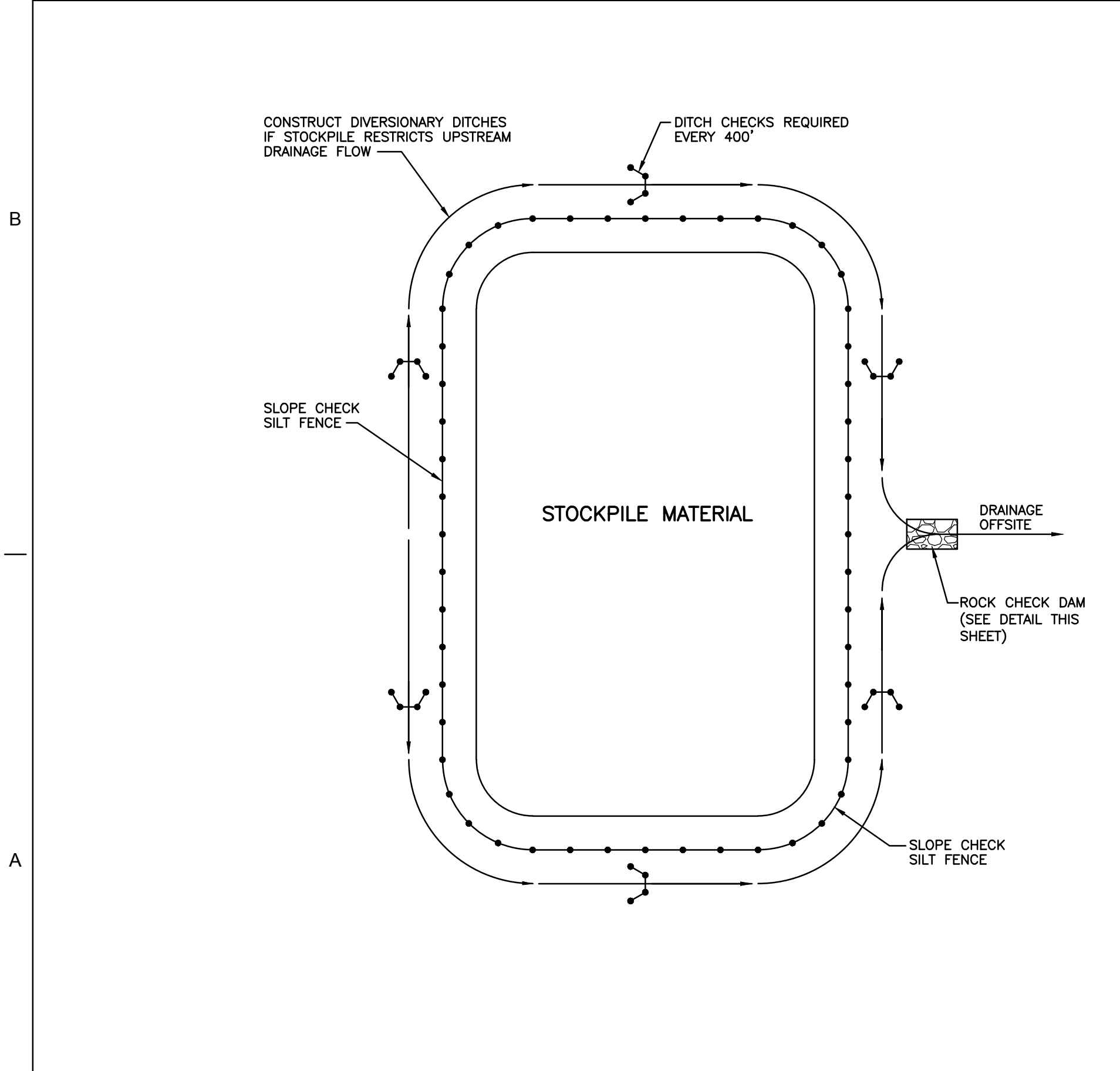


13. IMPLEMENT TEMPORARY STABILIZATION MEASURES ON ANY DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REMAIN FOR 14 DAYS OR MORE. IMPLEMENTATION OF TEMPORARY STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY AND COMPLETED WITHIN SEVEN (7) DAYS FROM WHEN CONSTRUCTION ACTIVITIES TEMPORARILY CEASED ON ANY PORTION OF THE SITE.
14. EXPOSED AREAS ARE TO BE SEEDED/STABILIZED AS SPECIFIED WITHIN SEVEN (7) DAYS FOLLOWING THE CONCLUSION OF FINAL GRADING IN THAT AREA.
15. THE CONTRACTOR IS RESPONSIBLE FOR REGULARLY CHECKING SEEDED AREAS TO SEE THAT A GOOD STAND OF VEGETATION IS ESTABLISHED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED. THE CONTRACTOR IS RESPONSIBLE TO ENSURE VEGETATION IS ESTABLISHED FOR A WARRANTY PERIOD OF TWO FULL GROWING SEASONS.
16. TRACKING OF SOIL AND SEDIMENT ONTO OFF-SITE ROADWAYS SHALL BE MINIMIZED THROUGH THE USE OF APPROPRIATE MEASURES. THE CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SOIL OR SEDIMENT TRACKED ONTO THE ROADWAYS.
17. THE CONTRACTOR SHALL BRING TO THE SITE AND USE ONLY EQUIPMENT THAT IS WELL-MAINTAINED AND WITHOUT LEAKS.
18. NO VEHICLES AND EQUIPMENT CLEANING IS ALLOWED AT LOCATIONS WHERE RUNOFF SHALL FLOW DIRECTLY INTO A WATER COURSE.
19. EMPTY CANISTERS, CANS, OR OTHER CHEMICAL CONTAINERS (I.E. FROM HYDRAULIC FLUIDS, ETC.) AND ALL OTHER WASTE MATERIALS ARE TO BE KEPT IN APPROVED SEALED-OR-LEAKED CONTAINERS UNTIL THEY CAN BE REMOVED FROM THE SITE FOR PROPER OFF-SITE DISPOSAL.

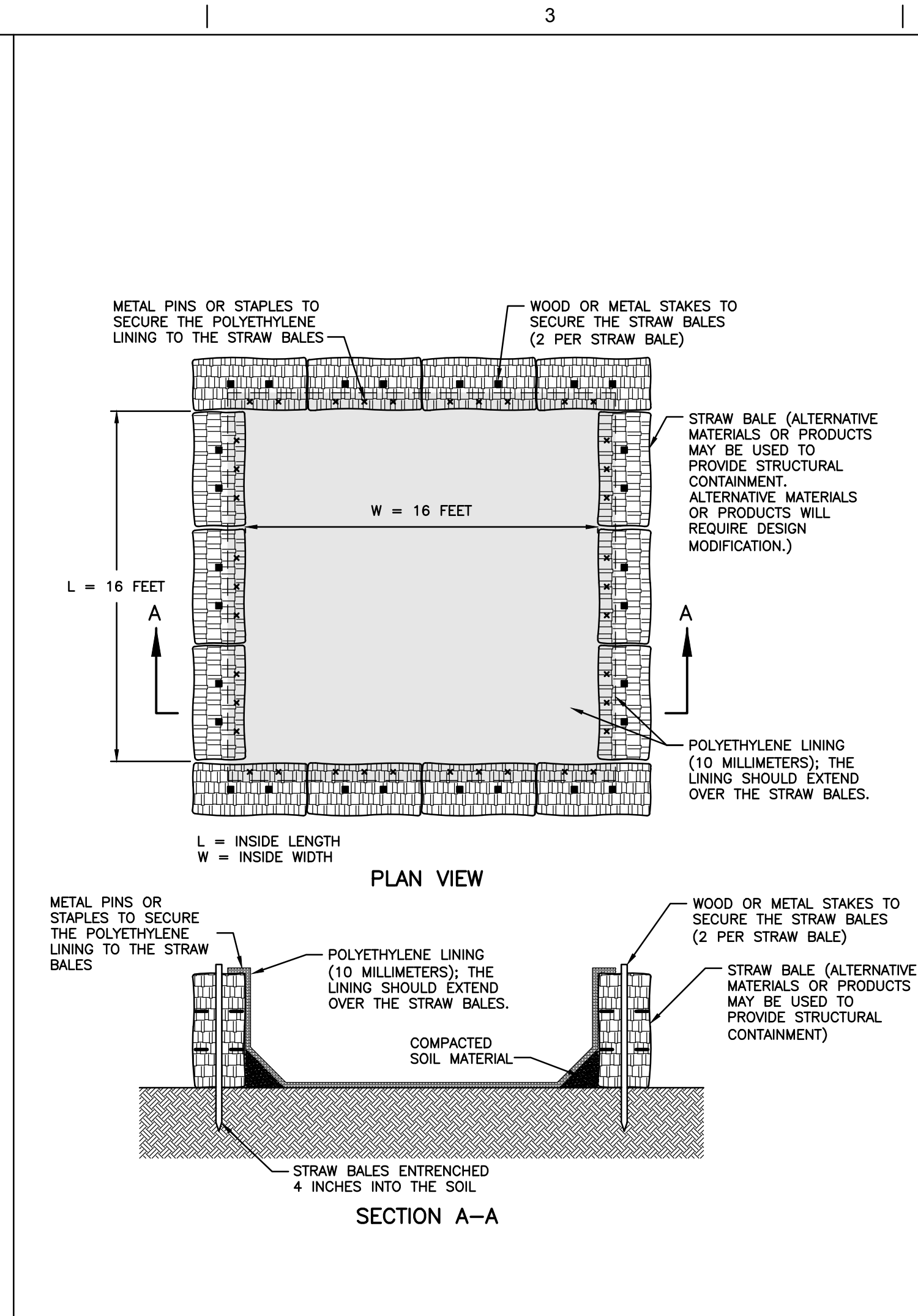
CONSTRUCTION MANAGED BY:			
DESIGNED BY:  WOOLPERT DESIGN GEOSPATIAL INFRASTRUCTURE		7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805	
EROSION CONTROL DETAILS			
DRAWN BY RMM	ISSUE 1	ISSUE DATE 05/14/15	SHEET NO. C305
CHECKED BY BJH	MEWER PROJECT NO.		WOOLPERT PROJECT NO. 74485
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EROSION CONTROL SCHEDULE		
EROSION CONTROL MEASURE	MAINTENANCE	INSTALLATION SEQUENCE
STONE ENTRANCE	INSPECT WEEKLY, AFTER STORM EVENTS, AND AFTER HEAVY USE; RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL; TOP DRESS WITH CLEAN STONE AS NEEDED; REMOVE ALL MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS IMMEDIATELY	PRIOR TO CLEARING AND GRADING
SILT FENCE	INSPECT AFTER STORM EVENTS; REPAIR ANY AREAS OF DECOMPOSITION OR DAMAGE TO FENCE MATERIAL; REMOVE SEDIMENT AT DEPTH OF ONE HALF FENCE HEIGHT AT LOWEST POINT OR IF FABRIC BULGES; AVOID UNDERMINING DURING CLEANOUT	PRIOR TO CLEARING AND GRADING
EXISTING INLET PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TREE PROTECTION	WEEKLY, AFTER STORM EVENTS, AND AS NEEDED	PRIOR TO CLEARING AND GRADING
TEMPORARY DIVERSIONS	INSPECT WEEKLY AND AFTER EACH STORM EVENT; REMOVE SEDIMENT FROM CHANNEL AND REINFORCE RIDGE AS NEEDED; REPAIR OUTLET DAMAGE IMMEDIATELY; REMOVE SEDIMENT FROM TRAPS WHEN 50% FULL; WHEN WORK AREA IS STABILIZED, REMOVE RIDGE, FILL CHANNEL, REMOVE TEMPORARY SLOPE DRAINS, AND STABILIZE ALL DISTURBED AREAS	ALONG WITH ROUGH GRADING
TEMPORARY SEDIMENT TRAP	INSPECT AFTER STORM EVENTS; REMOVE SEDIMENT AT ONE HALF DESIGN DEPTH, REPLACE SPILLWAY GRAVEL FACING IF CLOGGED; REPAIR EROSION AND HOLES AS NEEDED; REPLACE DISPLACED RIPRAP	DURING CLEARING AND PRIOR TO GRADING
TEMPORARY SEEDING	INSPECT PERIODICALLY TO VERIFY ADEQUATE ESTABLISHMENT OF VEGETATIVE STANDS; RESEED AND MULCH AS NEEDED; INSPECT AFTER STORM EVENTS AND REPAIR EROSION DAMAGE; TOP DRESS FALL SEEDED WHEAT OR RYE SEEDINGS WITH 50 LBS/AC OF NITROGEN IN FEBRUARY OR MARCH IF NITROGEN DEFICIENCY IS APPARENT; WATER AS NEEDED	AFTER ROUGH GRADING
PERMANENT SEEDING	INSPECT PERIODICALLY AND AFTER STORM EVENTS UNTIL VEGETATIVE STAND IS ESTABLISHED; ADD FERTILIZER AFTER GROWING SEASON PER SOIL TEST RECOMMENDATIONS; REPAIR DAMAGED, BARE, OR SPARSE AREAS BY FILLING, PREPARING THE SEED BED, FERTILIZING, AND/OR SEEDING AND MULCHING	AFTER FINISH GRADING OF EACH AREA
EROSION CONTROL BLANKET	INSPECT FOR AREAS OF EROSION BELOW THE BLANKET AFTER EACH STORM EVENT; REPAIR AREAS OF EROSION BY REMOVING AFFECTED PORTION OF BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET; INSPECT PERIODICALLY AFTER VEGETATION IS ESTABLISHED	AFTER FINISH GRADING
STRAW BALES	INSPECT THE BALES AFTER EACH STORM EVENT; REMOVE SEDIMENT DEPOSITS TO PROVIDE STORAGE FOR THE NEXT STORM BEING CAREFUL NOT TO DAMAGE OR UNDERCUT THE BALES; REPLACE DAMAGED OR DETERIORATED BALES IMMEDIATELY	AFTER FINISH GRADING
INLET PROTECTION	INSPECT FABRIC BARRIER AFTER STORM EVENTS AND MAKE NEEDED REPAIRS IMMEDIATELY; REMOVE SEDIMENT FROM THE POOL AREA WHILE AVOIDING DAMAGING OR UNDERCUTTING THE FABRIC	AFTER EACH INLET IS PLACED
SEED, SOD & LANDSCAPE AROUND UNITS FINISHED	KEEP SOD MOIST UNTIL FULLY ROOTED; WATER AS NEEDED	AFTER FINISHED GRADING AROUND FINISHED UNITS
REMOVAL OF STRAW BALES	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF INLET PROTECTION	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED
REMOVAL OF SILT FENCE	N/A	AFTER ALL AREAS DRAINING TO THESE AREAS ARE STABILIZED

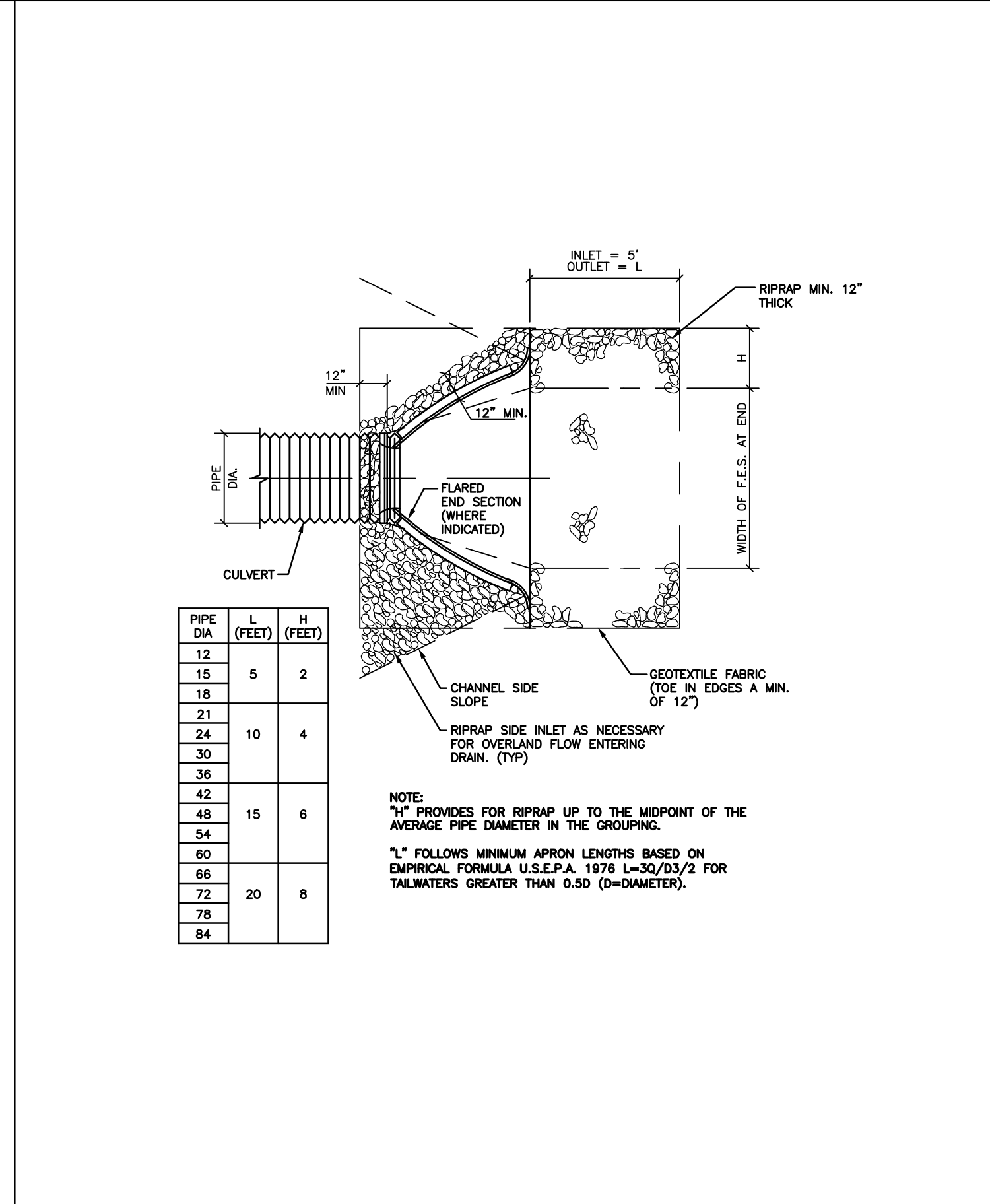
D12	EROSION CONTROL SCHEDULE
NTS	



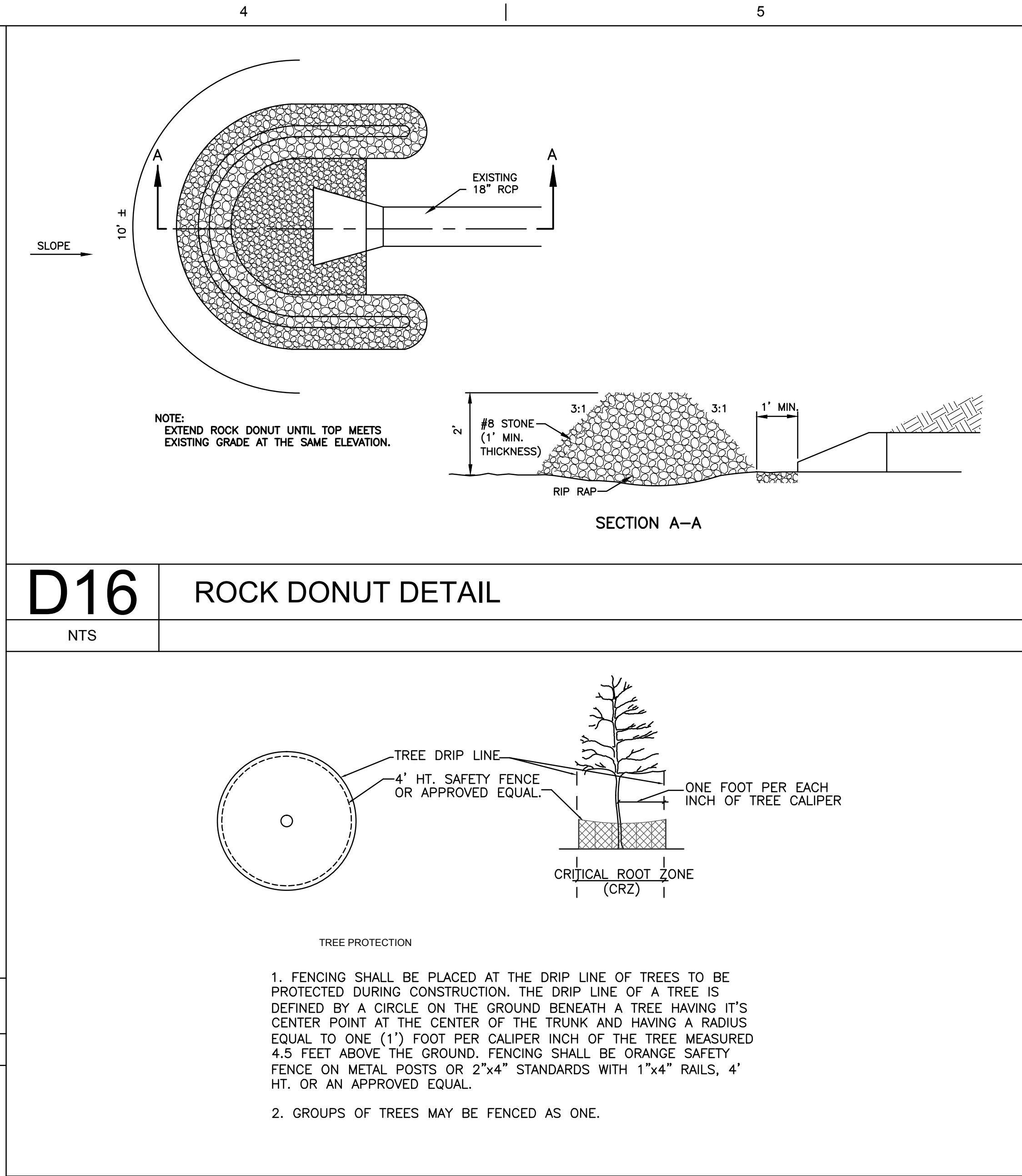
D13	STOCKPILE EROSION CONTROL
NTS	



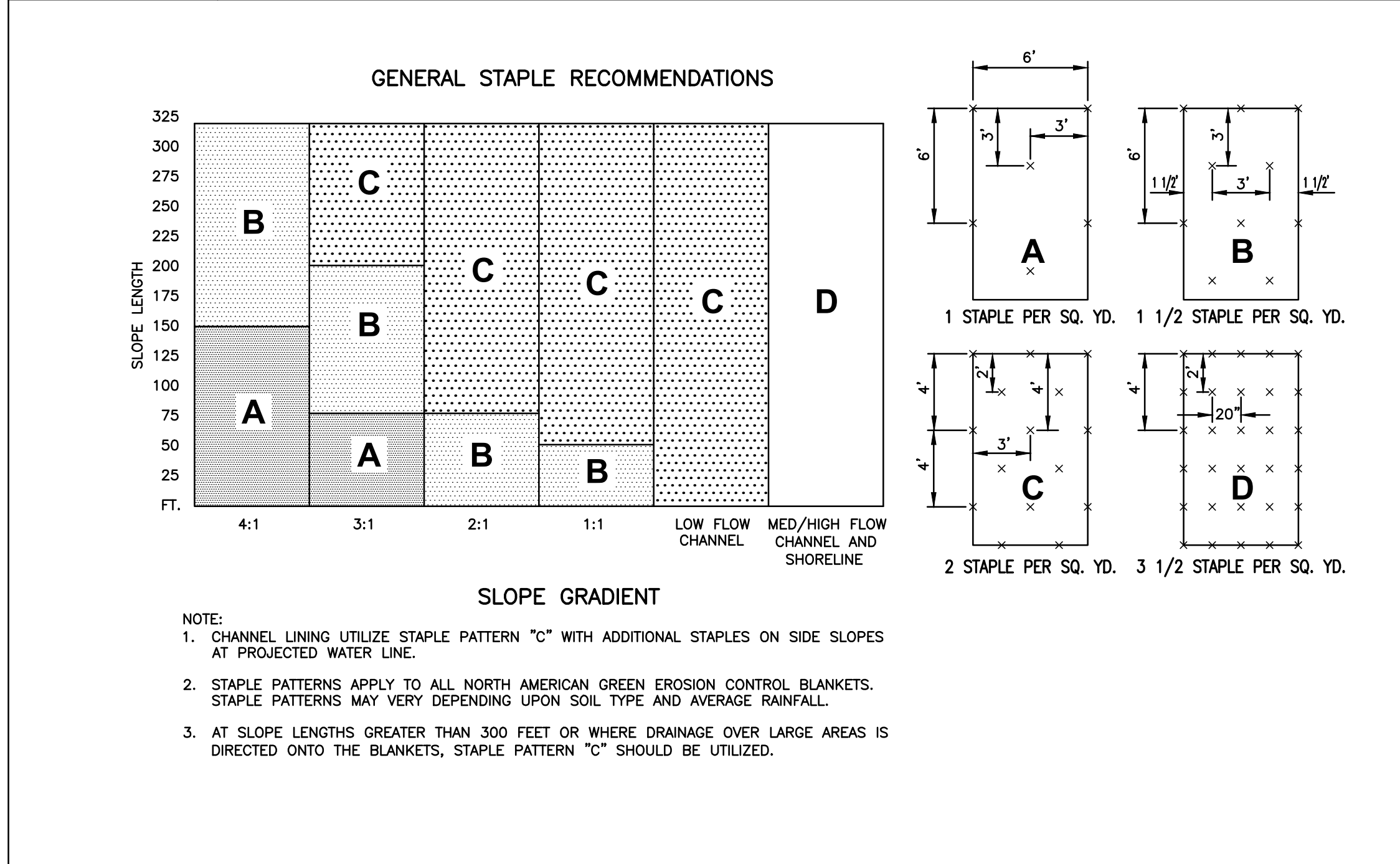
D14	CONCRETE WASHOUT DETAIL
NTS	



D15	RIPRAP END TREATMENT DETAIL
NTS	



D17	TREE PROTECTION DETAIL
NTS	



D18	EROSION CONTROL MAT INSTALLAION GUIDE DETAIL
NTS	

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STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

DESIGNED BY: **WOOLPERT**
DESIGN | GEOSPATIAL | INFRASTRUCTURE

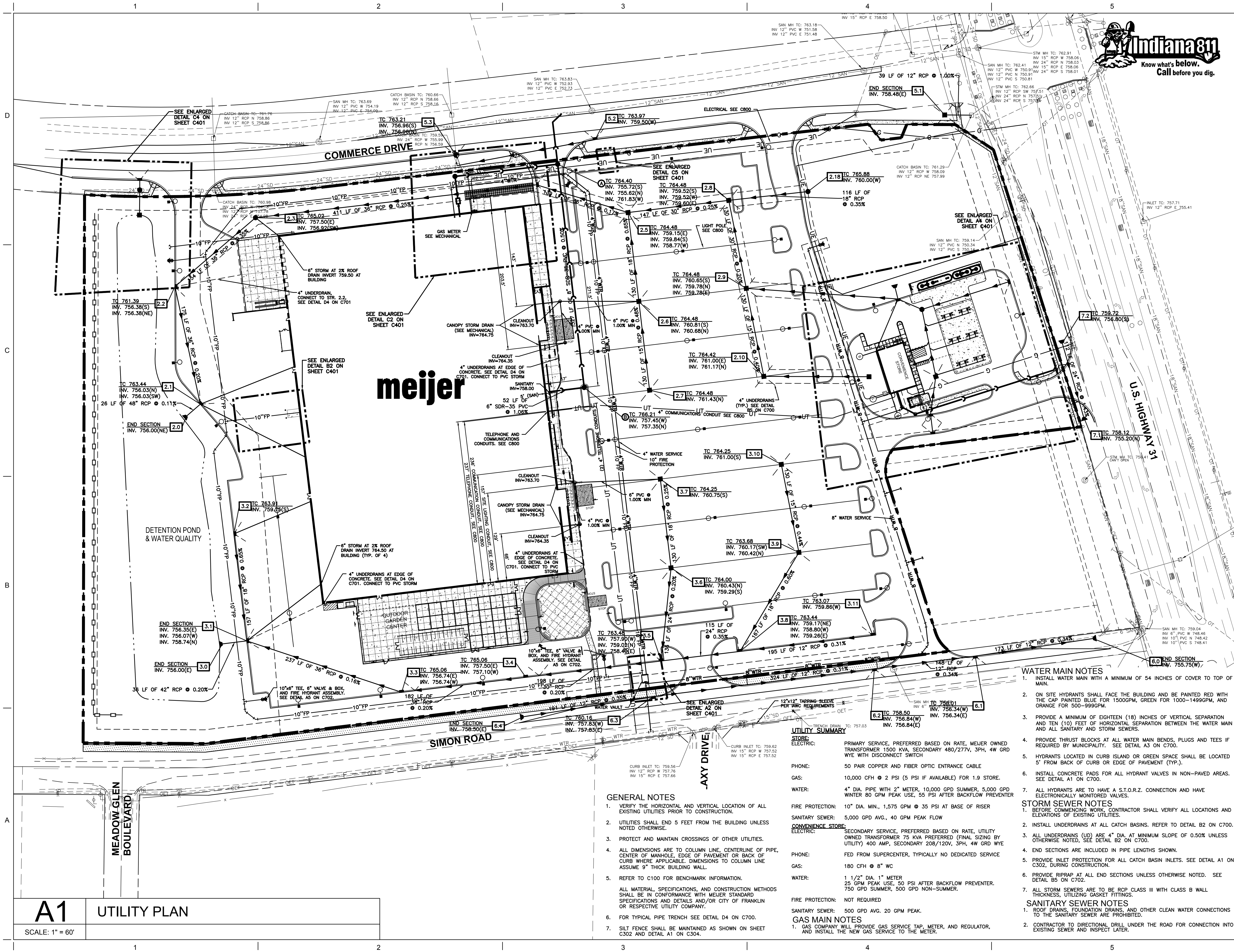
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

EROSION CONTROL DETAILS

DRAWN BY: RMM
CHECKED BY: BJH
ISSUE: 1
ISSUE DATE: 05/14/15
MEIJER PROJECT NO.:
WOOLPERT PROJECT NO.: 74485

SHEET NO.: C306

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UTILITY PLAN LEGEND

---	EXISTING BOUNDARY
---	PROPOSED BOUNDARY
---	PROPOSED SANITARY SEWER
---	PROPOSED STORM DRAIN
---	PROPOSED ROOF DRAIN
---	PROPOSED WATER MAIN
---	PROPOSED ELECTRIC
---	PROPOSED OVERHEAD ELECTRIC
---	PROPOSED GAS
---	PROPOSED TELEPHONE
---	PROPOSED OVERHEAD TELEPHONE
---	PROPOSED CABLE
---	PROPOSED CONDUIT
---	PROPOSED FIBEROPTIC
---	PROPOSED UNDERDRAIN
---	PROPOSED EASEMENT

■	PROPOSED CATCH BASIN
■	PROPOSED CURB INLET
●	PROPOSED STORM MANHOLE
●	PROPOSED SANITARY MANHOLE
▶	PROPOSED FLARED END SECTION
○	PROPOSED CLEAN OUT
●	PROPOSED FIRE HYDRANT
●	PROPOSED VALVE
○	PROPOSED ELECTRICAL MANHOLE
○	PROPOSED TELEPHONE MANHOLE
□	PROPOSED LIGHT POLE
○	PROPOSED SANITARY STRUCTURE CALLOUT
1.1	PROPOSED STORM STRUCTURE CALLOUT
⌋	PROPOSED PLUG

PERMIT SET - NOT FOR CONSTRUCTION

meijer

STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

■	REVISION NO.	■	REVISION	■	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY:	7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805
WOOLPERT	
DESIGN GEOSPATIAL INFRASTRUCTURE	

UTILITY PLAN

■	DRAWN BY	■	ISSUE	■	ISSUE DATE	■	SHEET NO.
■	SMB	1	05/14/15	■		■	C400
■	CHECKED BY	■	MEIJEER PROJECT NO.	■	WOOLPERT PROJECT NO.	■	
■	BJH			■	74485	■	

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GENERAL NOTES

- VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- UTILITIES SHALL END 5 FEET FROM THE BUILDING UNLESS NOTED OTHERWISE.
- PROTECT AND MAINTAIN CROSSINGS OF OTHER UTILITIES.
- ALL DIMENSIONS ARE TO COLUMN LINE, CENTERLINE OF PIPE, CENTER OF MANHOLE, EDGE OF PAVEMENT OR BACK OF CURB WHERE APPLICABLE. DIMENSIONS TO COLUMN LINE ASSUME 9" THICK BUILDING WALL.
- REFER TO C100 FOR BENCHMARK INFORMATION.
- ALL MATERIAL, SPECIFICATIONS, AND CONSTRUCTION METHODS SHALL BE IN CONFORMANCE WITH MEIJER STANDARD SPECIFICATIONS AND DETAILS AND/OR CITY OF FRANKLIN OR RESPECTIVE UTILITY COMPANY.
- FOR TYPICAL PIPE TRENCH SEE DETAIL D4 ON C700.
- SILT FENCE SHALL BE MAINTAINED AS SHOWN ON SHEET C302 AND DETAIL A1 ON C304.

UTILITY SUMMARY

STORE:

ELECTRIC:

PHONE:

GAS:

WATER:

FIRE PROTECTION:

SANITARY SEWER:

CONVENIENCE STORE:

PHONE:

GAS:

WATER:

FIRE PROTECTION:

SANITARY SEWER:

GAS MAIN NOTES

- GAS COMPANY WILL PROVIDE GAS SERVICE TAP, METER, AND REGULATOR, AND INSTALL THE NEW GAS SERVICE TO THE METER.

WATER MAIN NOTES

- INSTALL WATER MAIN WITH A MINIMUM OF 54 INCHES OF COVER TO TOP OF MAIN.
- ON SITE HYDRANTS SHALL FACE THE BUILDING AND BE PAINTED RED WITH THE CAP PAINTED BLUE FOR 1500GPM, GREEN FOR 1000-1499GPM, AND ORANGE FOR 500-999GPM.
- PROVIDE A MINIMUM OF EIGHTEEN (18) INCHES OF VERTICAL SEPARATION AND TEN (10) FEET OF HORIZONTAL SEPARATION BETWEEN THE WATER MAIN AND ALL SANITARY AND STORM SEWERS.
- PROVIDE THRUST BLOCKS AT ALL WATER MAIN BENDS, PLUGS AND TEES IF REQUIRED BY MUNICIPALITY. SEE DETAIL A3 ON C700.
- HYDRANTS LOCATED IN CURB ISLAND OR GREEN SPACE SHALL BE LOCATED 5' FROM BACK OF CURB OR EDGE OF PAVEMENT (TYP.).
- INSTALL CONCRETE PADS FOR ALL HYDRANT VALVES IN NON-PAVED AREAS. SEE DETAIL A1 ON C700.
- ALL HYDRANTS ARE TO HAVE A S.T.O.R.Z. CONNECTION AND HAVE ELECTRONICALLY MONITORED VALVES.

STORM SEWER NOTES

- BEFORE COMMENCING WORK, CONTRACTOR SHALL VERIFY ALL LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES.
- INSTALL UNDERDRAINS AT ALL CATCH BASINS. REFER TO DETAIL B2 ON C700.
- ALL UNDERDRAINS (UD) ARE 4" DIA. AT MINIMUM SLOPE OF 0.50% UNLESS OTHERWISE NOTED. SEE DETAIL B2 ON C700.
- END SECTIONS ARE INCLUDED IN PIPE LENGTHS SHOWN.
- PROVIDE INLET PROTECTION FOR ALL CATCH BASIN INLETS. SEE DETAIL A1 ON C302, DURING CONSTRUCTION.
- PROVIDE RIPRAP AT ALL END SECTIONS UNLESS OTHERWISE NOTED. SEE DETAIL B5 ON C702.
- ALL STORM SEWERS ARE TO BE RCP CLASS III WITH CLASS B WALL THICKNESS, UTILIZING GASKET FITTINGS.

SANITARY SEWER NOTES

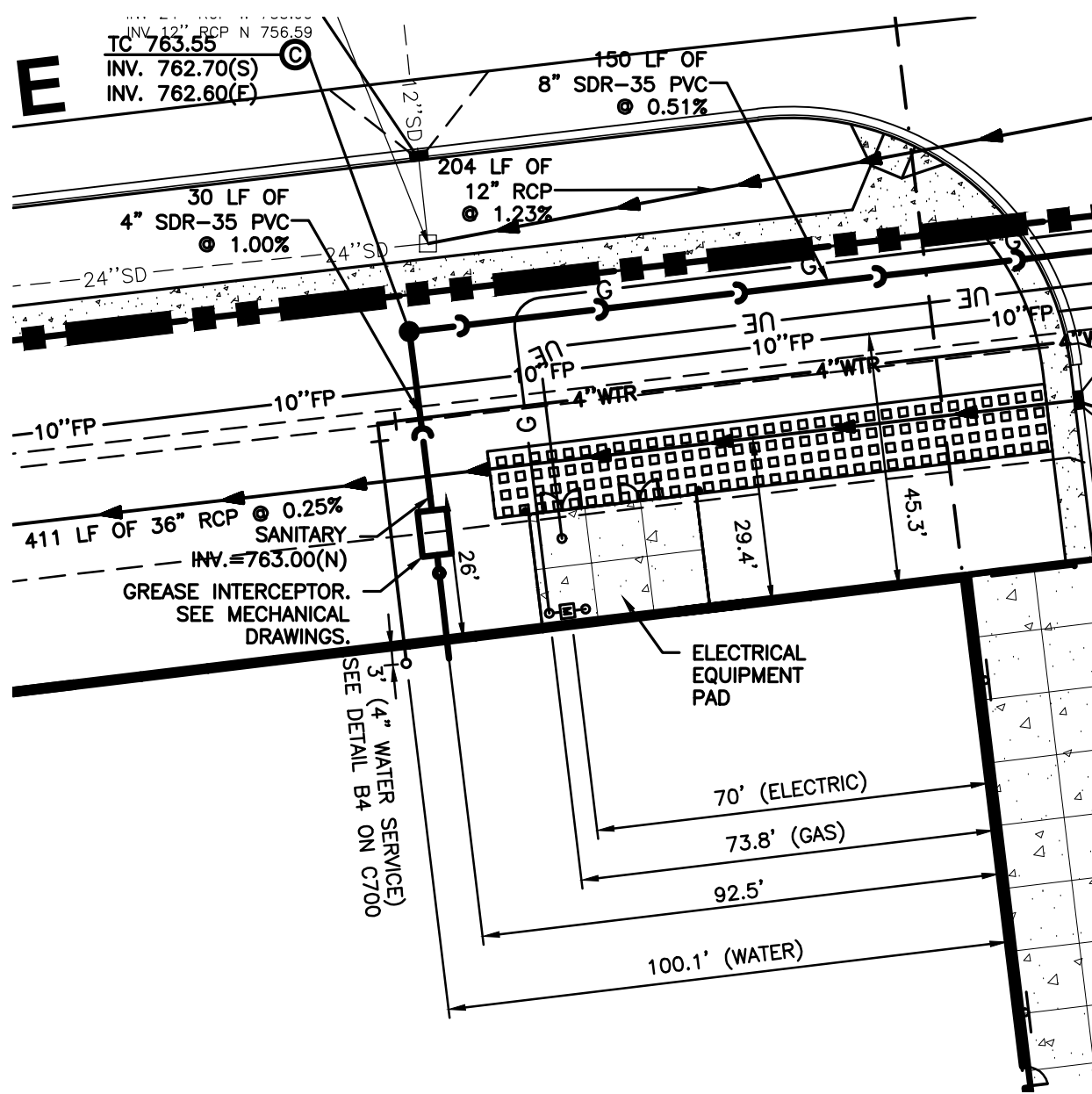
- ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
- CONTRACTOR TO DIRECTIONAL DRILL UNDER THE ROAD FOR CONNECTION INTO EXISTING SEWER AND INSPECT LATER.

D

C

B

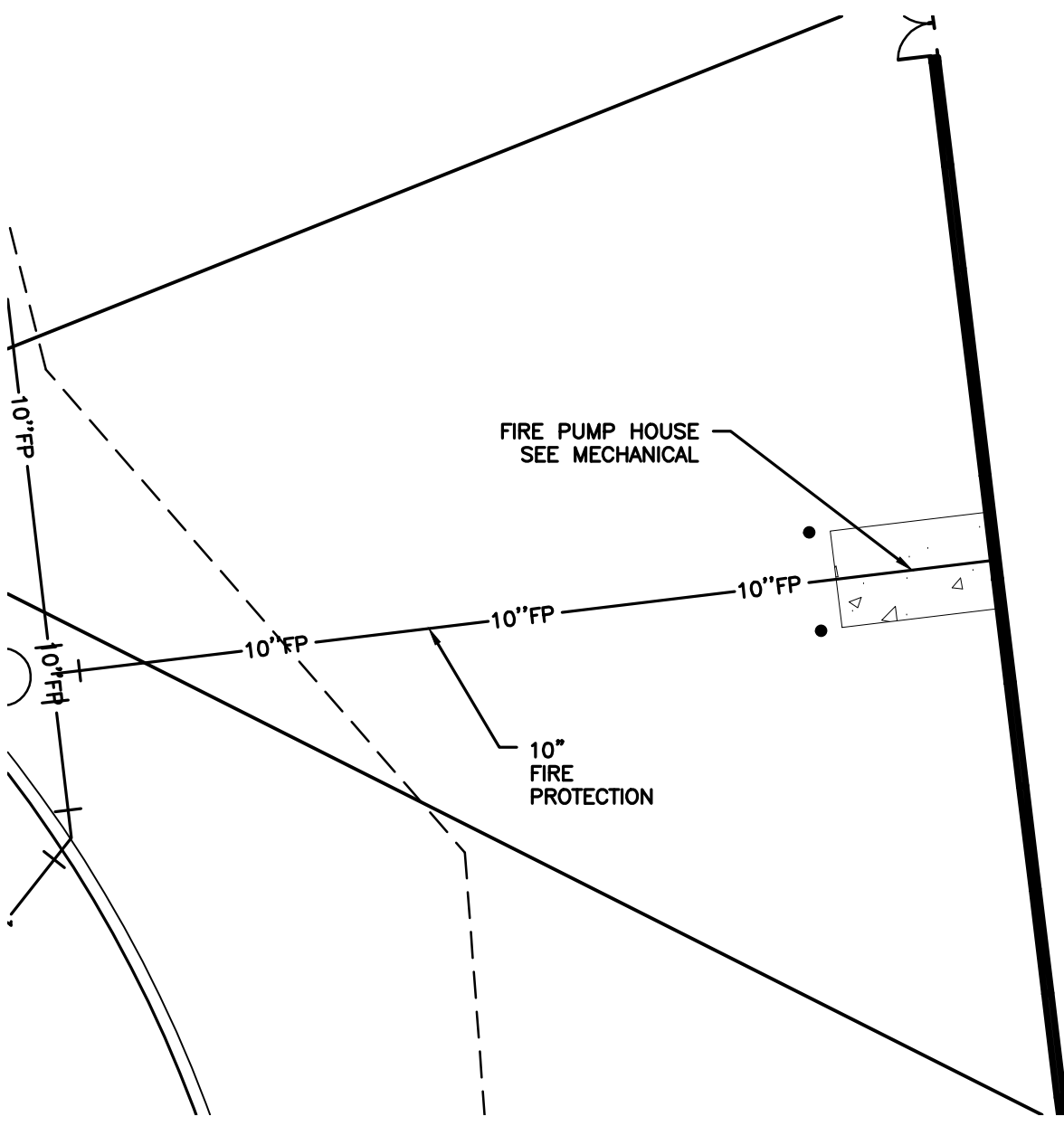
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C2 ELECTRICAL EQUIPMENT PAD DETAIL

SCALE: 1" = 30'

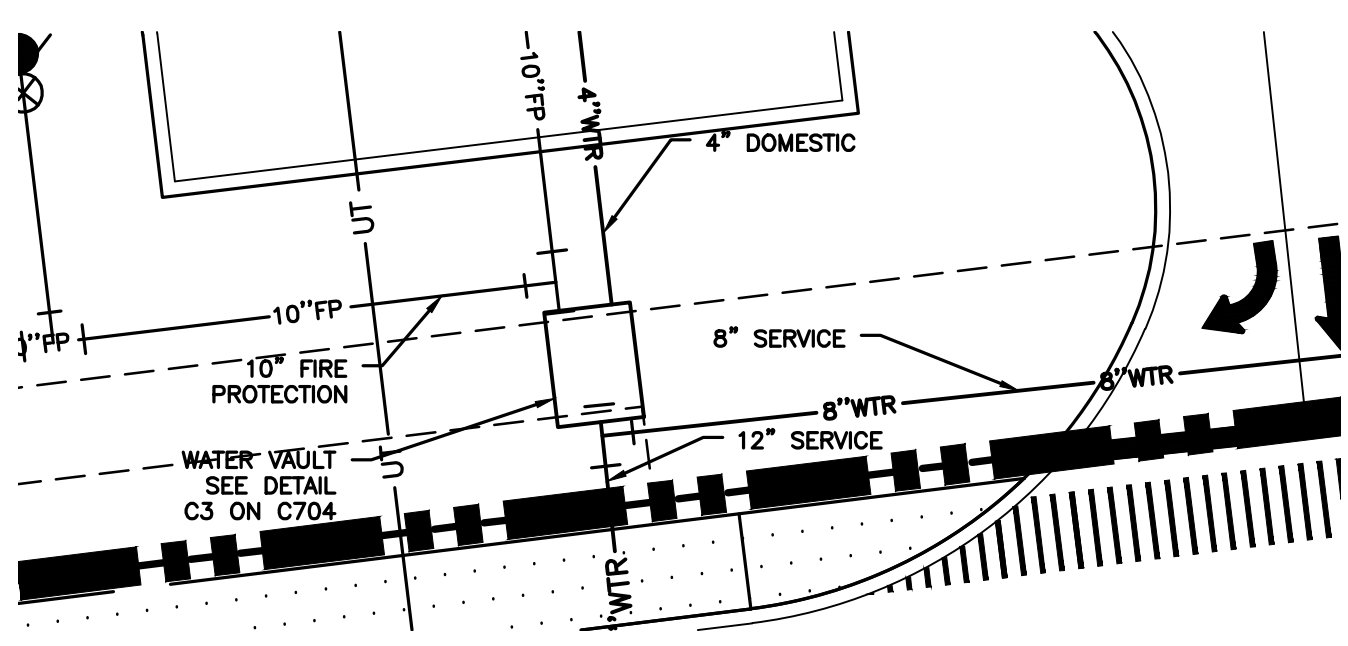
A1/C400



B2 FIRE PUMP DETAIL

SCALE: 1" = 20'

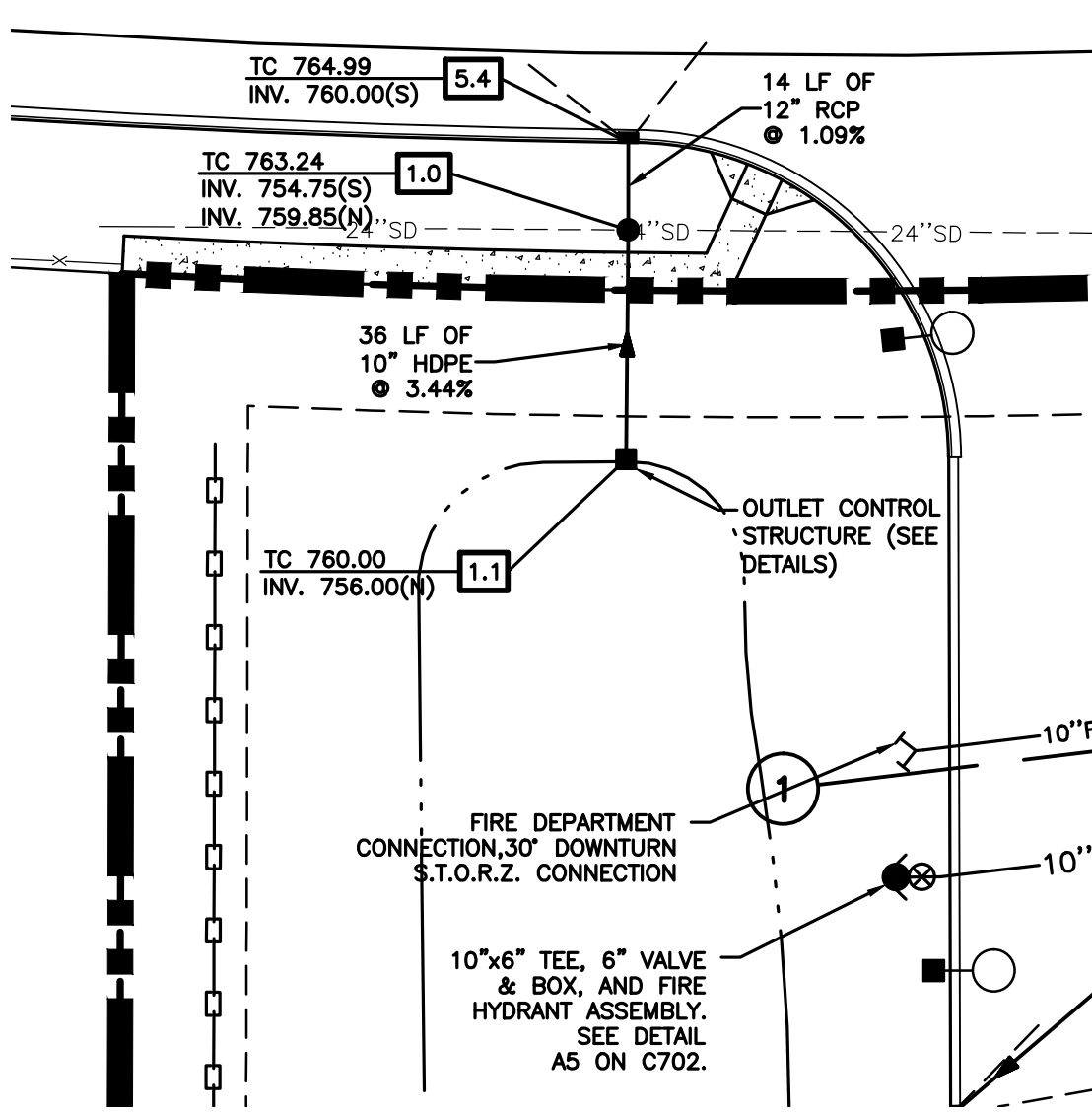
A1/C400



A2 WATER VAULT DETAIL

SCALE: 1" = 20'

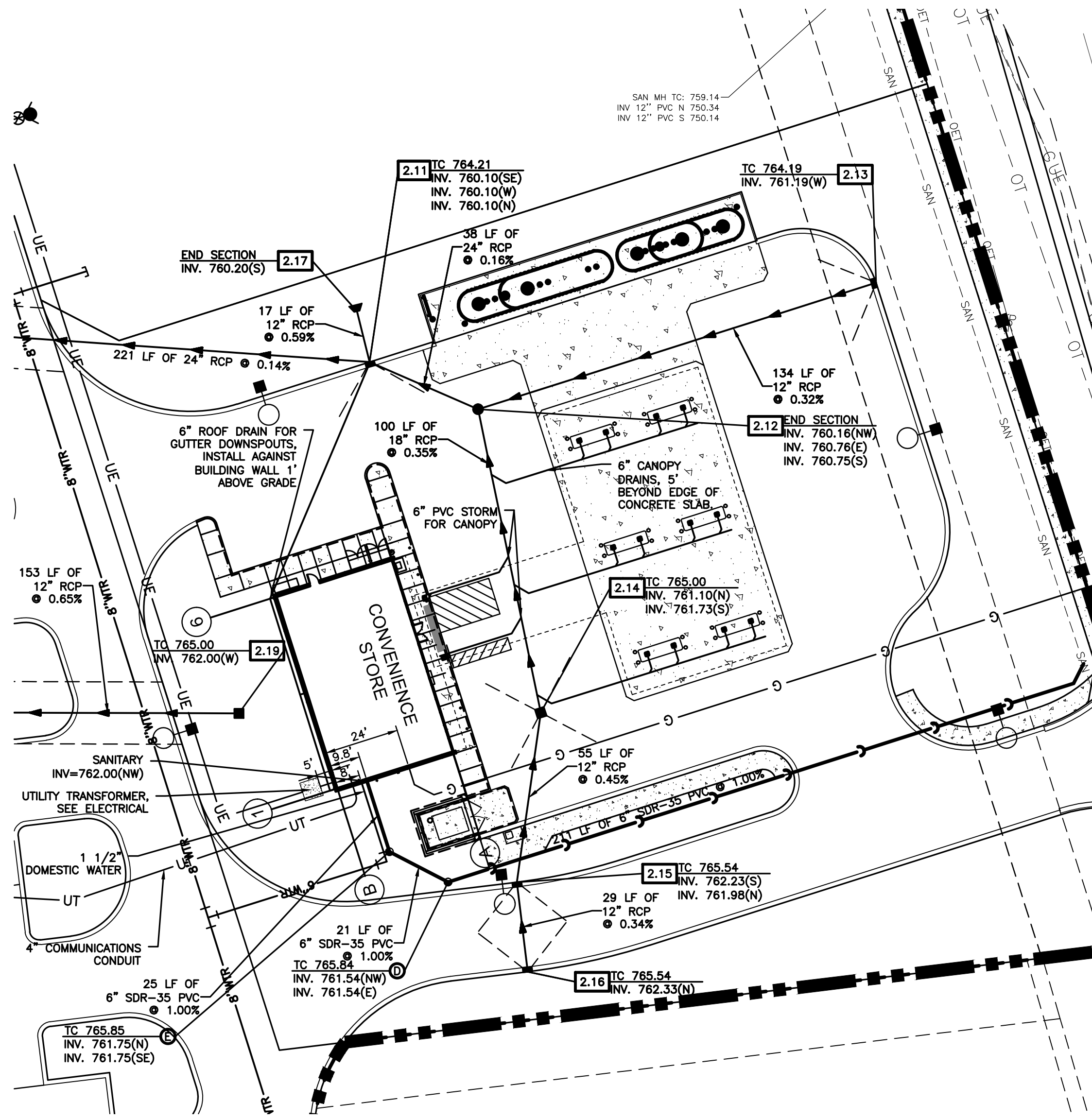
A1/C400



C4 POND OUTFALL DETAIL

SCALE: 1" = 30'

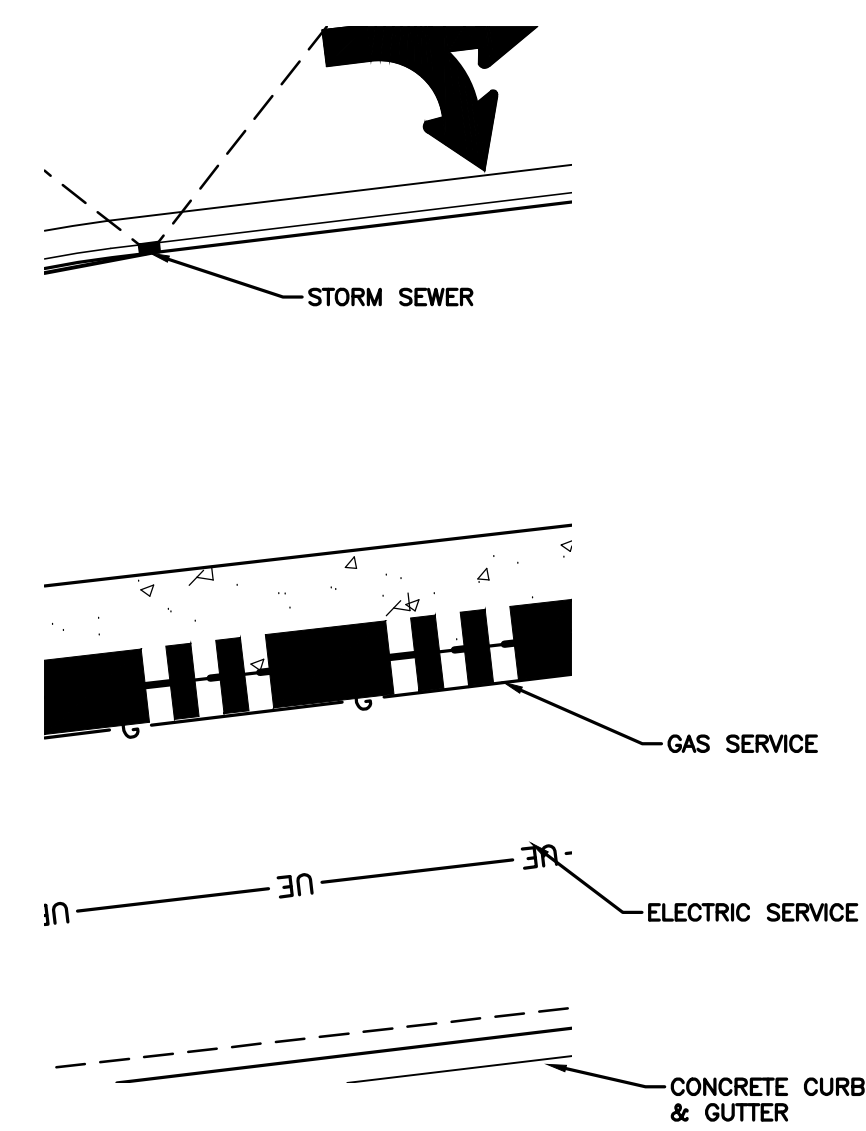
A1/C400



A4 ENLARGED CONVENIENCE STORE UTILITIES

SCALE: 1" = 30'

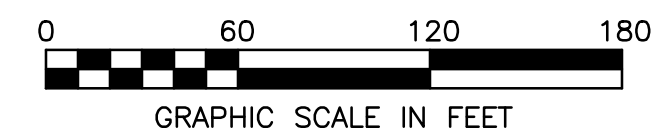
A1/C400



C5 UTILITY CORRIDOR

SCALE: 1" = 10'

A1/C400



UTILITY PLAN LEGEND

- EXISTING BOUNDARY
- PROPOSED BOUNDARY
- PROPOSED SANITARY SEWER
- PROPOSED STORM DRAIN
- PROPOSED ROOF DRAIN
- PROPOSED WATER MAIN
- PROPOSED ELECTRIC
- PROPOSED OVERHEAD ELECTRIC
- PROPOSED GAS
- PROPOSED TELEPHONE
- PROPOSED OVERHEAD TELEPHONE
- PROPOSED CABLE
- PROPOSED CONDUIT
- PROPOSED FIBEROPTIC
- PROPOSED UNDERDRAIN
- PROPOSED CATCH BASIN
- PROPOSED CURB INLET
- PROPOSED STORM MANHOLE
- PROPOSED SANITARY MANHOLE
- PROPOSED FLARED END SECTION
- PROPOSED CLEAN OUT
- PROPOSED FIRE HYDRANT
- PROPOSED VALVE
- PROPOSED ELECTRICAL MANHOLE
- PROPOSED TELEPHONE MANHOLE
- PROPOSED LIGHT POLE
- PROPOSED SANITARY STRUCTURE CALLOUT
- PROPOSED STORM STRUCTURE CALLOUT
- PROPOSED PLUG



PERMIT SET - NOT FOR CONSTRUCTION

meijer

**STORE FRK
CONSTRUCTION PLANS**

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

UTILITY PLAN

DRAWN BY: SMB	ISSUE: 1	ISSUE DATE: 05/14/15	SHEET NO.: C401
CHECKED BY: BJH	MEIJER PROJECT NO.: 74485	WOOLPERT PROJECT NO.: 74485	

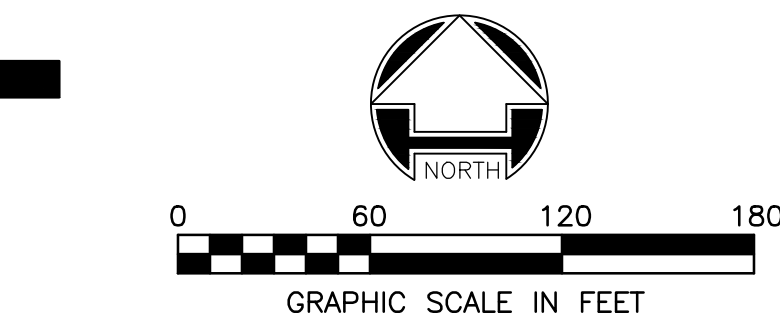
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STORM STRUCTURE TABLE					
STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT	CASTING	REMARKS
1.0	48" Dia. MH	763.24	10" = 754.75 (S) 12" = 759.85 (N)	1022	DOGHOUSE MANHOLE
1.1	Outlet Control Structure	760.00	10" = 756.00 (N)	—	SEE DETAIL C1 ON C704
2.0	48" Conc. End Section		48" = 756.00 (NE)	—	SEE DETAIL A5 ON C702
2.1	72" Dia. MH	763.44	36" = 756.03 (N) 48" = 756.03 (SW)	7030 T6	SEE DETAIL D1 ON C700
2.2	72" Dia. MH	761.39	36" = 756.38 (S) 36" = 756.38 (NE)	7030 T6	SEE DETAIL D1 ON C700
2.3	72" Dia. MH	765.02	36" = 757.50 (E) 36" = 756.92 (SW)	1022	SEE DETAIL D1 ON C700
2.4	72" Dia. MH	765.92	36" = 758.54 (E) 36" = 758.54 (W)	7065	SEE DETAIL D1 ON C700
2.5	60" Dia. MH	764.48	30" = 759.15 (E) 18" = 758.84 (S) 36" = 758.77 (W)	5235	SEE DETAIL D1 ON C700
2.6	2'x2' Inlet Box	764.48	15" = 760.81 (S) 18" = 760.68 (N)	5235	SEE DETAIL D4 ON C702
2.7	4'x2' Inlet Box	764.48	15" = 761.43 (N)	5236	
2.8	60" Dia. MH	764.48	30" = 759.52 (S) 30" = 759.52 (W) 18" = 759.60 (E)	5232	SEE DETAIL D1 ON C700
2.9	60" Dia. MH	764.48	15" = 760.65 (S) 30" = 759.78 (N) 24" = 759.78 (E)	5235	SEE DETAIL D1 ON C700
2.10	4'x2' Inlet Box	764.42	12" = 761.00 (E) 15" = 761.17 (N)	5236	SEE DETAIL D2 ON C700
2.11	48" Dia. MH	764.21	24" = 760.10 (SE) 24" = 760.10 (W) 12" = 760.10 (N)	7065	SEE DETAIL D3 ON C700
2.12	48" Dia. MH	764.68	24" = 760.16 (NW) 12" = 760.76 (E) 18" = 760.75 (S)	1022	SEE DETAIL D1 ON C700
2.13	2'x2' Inlet Box	764.19	12" = 761.19 (W)	7065	SEE DETAIL D3 ON C700
2.14	2'x2' Inlet Box	765.00	18" = 761.10 (N) 12" = 761.73 (S)	5235	SEE DETAIL D3 ON C700
2.15	2'x2' Inlet Box	765.54	12" = 762.23 (S) 12" = 761.98 (N)	7065	SEE DETAIL D4 ON C702
2.16	2'x2' Inlet Box	765.54	12" = 762.33 (N)	7065	SEE DETAIL D4 ON C702
2.17	12" Conc. End Section		12" = 760.20 (S)	—	SEE DETAIL A5 ON C702
2.18	60" Dia MH	765.88	18" = 760.00 (W)	1022	SEE DETAIL D1 ON C700
2.19	2'x2' Inlet Box	765.00	12" = 762.00 (W)	6508	SEE DETAIL D3 ON C700
3.0	42" Conc. End Section		42" = 756.00 (E)	—	SEE DETAIL A5 ON C702

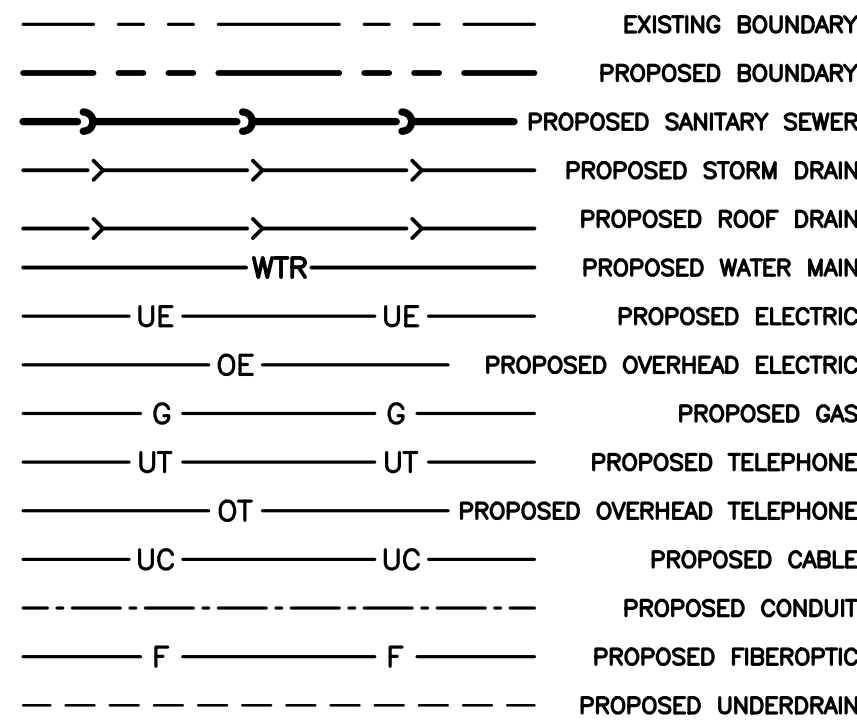
SANITARY STRUCTURE TABLE				
STRUCTURE ID	DESCRIPTION	RIM	INVERT	CASTING
A	Sanitary Manhole	764.40	8" = 755.72 (S) 8" = 755.62 (N) 8" = 761.83 (W)	1022
B	Sanitary Manhole	766.21	6" = 757.45 (W) 8" = 757.35 (N)	1022
C	Sanitary Manhole	763.55	4" = 762.70 (S) 8" = 762.60 (E)	1022
D	Sanitary Cleanout	765.84	6" = 761.54 (NW) 6" = 761.54 (E)	
E	Sanitary Cleanout	765.85	6" = 761.75 (N) 6" = 761.75 (SE)	















STRUCTURE ID	DESCRIPTION	RIM/GRATE	INVERT	CASTING	REMARKS
3.1	72" Dia. MH	765.14	36" = 756.35 (E) 42" = 756.07 (W) 18" = 758.74 (N)	7030 T6	SEE DETAIL D1 ON C700
3.2	2'x3' Inlet Box	763.91	18" = 759.75 (S)	7030 T6	SEE DETAIL D2 ON C700
3.3	72" Dia. MH	765.06	36" = 756.74 (E) 36" = 756.74 (W)	7030 T6	SEE DETAIL D1 ON C700
3.4	60" Dia. MH	765.06	30" = 757.50 (E) 36" = 757.10 (W)	7030 T6	SEE DETAIL D1 ON C700
3.5	60" Dia. MH	763.48	30" = 757.90 (W) 24" = 759.02 (N) 24" = 758.40 (E)	7065	SEE DETAIL D1 ON C700
3.6	4'x2' Inlet Box	764.00	18" = 760.43 (N) 24" = 759.29 (S)	5236	SEE DETAIL D2 ON C700
3.7	4'x2' Inlet Box	764.25	18" = 760.75 (S)	5236	SEE DETAIL D2 ON C700
3.8	60" Dia MH	763.44	18" = 759.17 (NE) 24" = 758.80 (W) 12" = 759.26 (E)	7065	SEE DETAIL D2 ON C700
3.9	4'x2' Inlet Box	763.68	18" = 760.17 (SW) 15" = 760.42 (N)	5236	SEE DETAIL D2 ON C700
3.10	4'x2' Inlet Box	764.25	15" = 761.00 (S)	5236	SEE DETAIL D1 ON C700
3.11	2'x2' Inlet Box	763.07	12" = 759.86 (W)	7065	SEE DETAIL D1 ON C700
5.1	2'x2' Inlet Box	761.50	12" = 758.48 (E)	6508	SEE DETAIL D4 ON C702
5.2	2'x3' Inlet Box	763.97	12" = 759.50 (W)	7030	SEE DETAIL D2 ON C700
5.3	2'x3' Inlet Box	763.21	12" = 756.96 (S) 12" = 756.96 (N)	7030	SEE DETAIL D2 ON C700
5.4	2'x3' Inlet Box	764.99	12" = 760.00 (S)	7030	SEE DETAIL D2 ON C700
6.0	12" End Section		12" = 755.75 (W)	—	SEE DETAIL A5 ON C702
6.1	2'x3' Inlet Box	758.01	12" = 756.34 (W) 12" = 756.34 (E)	7030	SEE DETAIL D2 ON C700
6.2	2'x3' Inlet Box	758.50	12" = 756.84 (W) 12" = 756.84 (E)	7030	SEE DETAIL D2 ON C700
6.3	2'x3' Inlet Box	760.16	12" = 757.83 (W) 12" = 757.83 (E)	7030	SEE DETAIL D2 ON C700
6.4	12" Conc. End Section		12" = 758.50 (E)	—	SEE DETAIL A5 ON C702
7.1	24" End Section		24" = 755.20 (N)	—	SEE DETAIL A5 ON C702
7.2	24" End Section		24" = 756.80 (S)	—	SEE DETAIL A5 ON C702

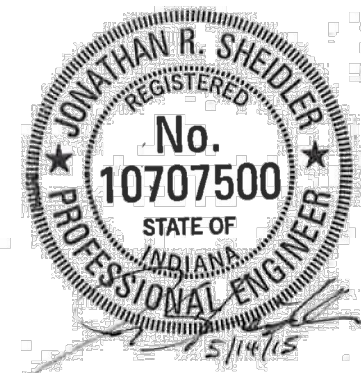
NOTE: ALL CASTING TYPES SHOWN ARE EAST JORDAN IRON WORKS



UTILITY PLAN LEGEND



- | | |
|---|-------------------------------------|
|  | PROPOSED CATCH BASIN |
|  | PROPOSED CURB INLET |
|  | PROPOSED STORM MANHOLE |
|  | PROPOSED SANITARY MANHOLE |
|  | PROPOSED FLARED END SECTION |
|  | PROPOSED CLEAN OUT |
|  | PROPOSED FIRE HYDRANT |
|  | PROPOSED VALVE |
|  | PROPOSED ELECTRICAL MANHOLE |
|  | PROPOSED TELEPHONE MANHOLE |
|  | PROPOSED LIGHT POLE |
|  | PROPOSED SANITARY STRUCTURE CALLOUT |
|  | PROPOSED STORM STRUCTURE CALLOUT |
|  | PROPOSED PLUG |



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meijer

STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DAT

CONSTRUCTION MANAGED BY

DESIGNED BY:



WOOLPERT

DESIGN | GEOSPATIAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
Indianapolis, IN 46270
317.299.7500
FAX: 317.291.5805

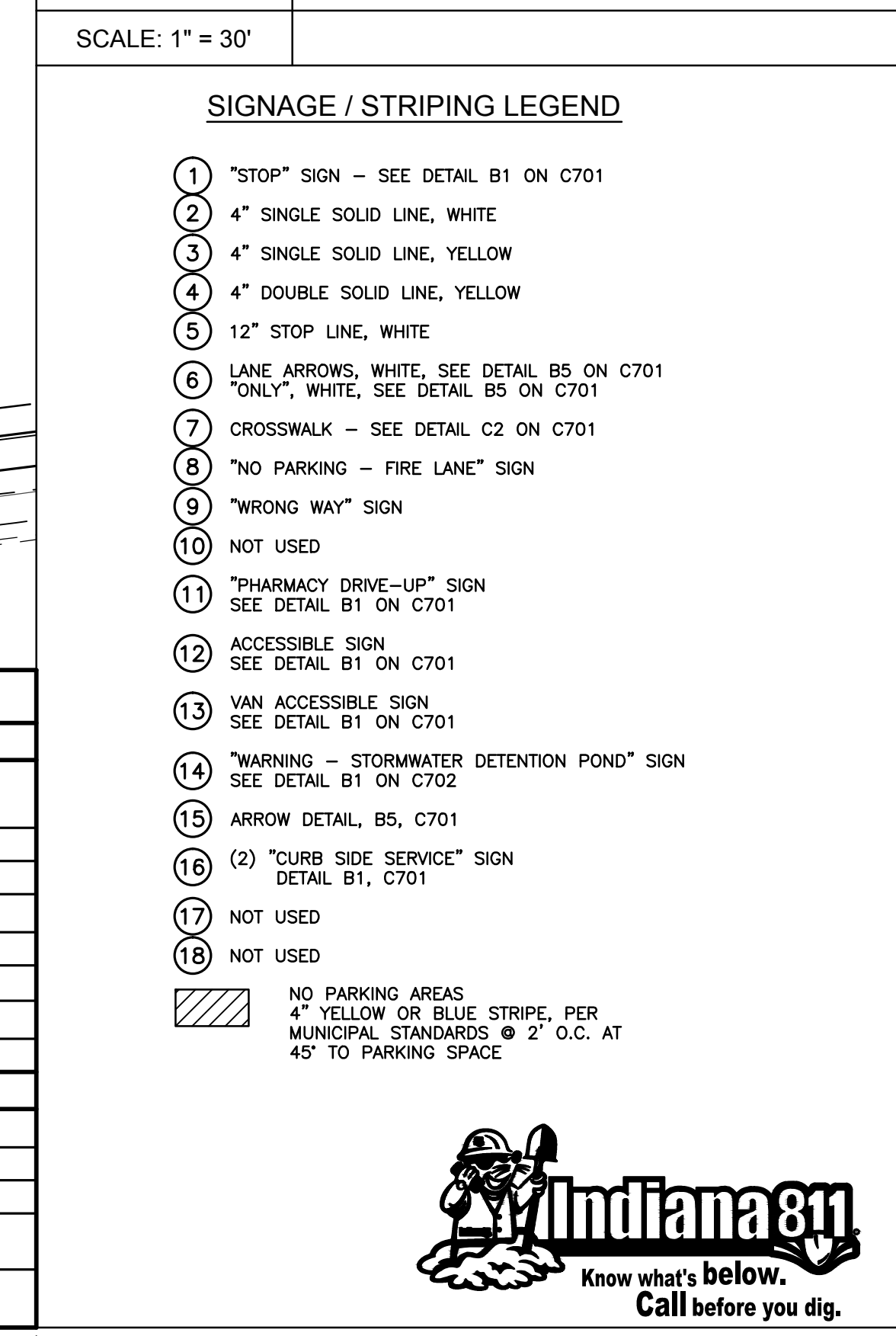
STRUCTURE DATA TABLES

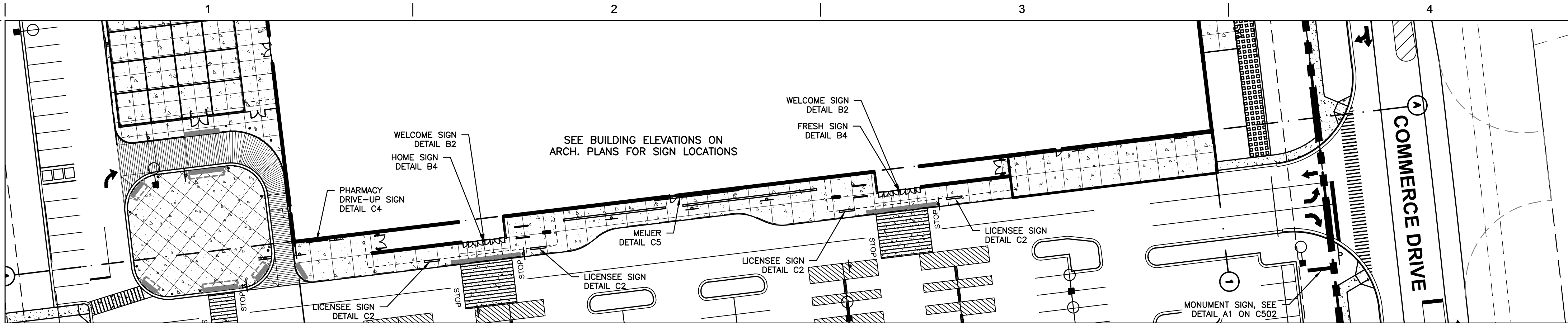
DRAWN BY
 SMB
 ISSUE
 1
 ISSUE DATE
 05/14/15
 SHEET NO.
 C402
 CHECKED BY
 BJH
 MEIJER PROJECT NO.
 WOOLPERT PROJECT NO.
 74485

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Know what's below.
Call before you dig.

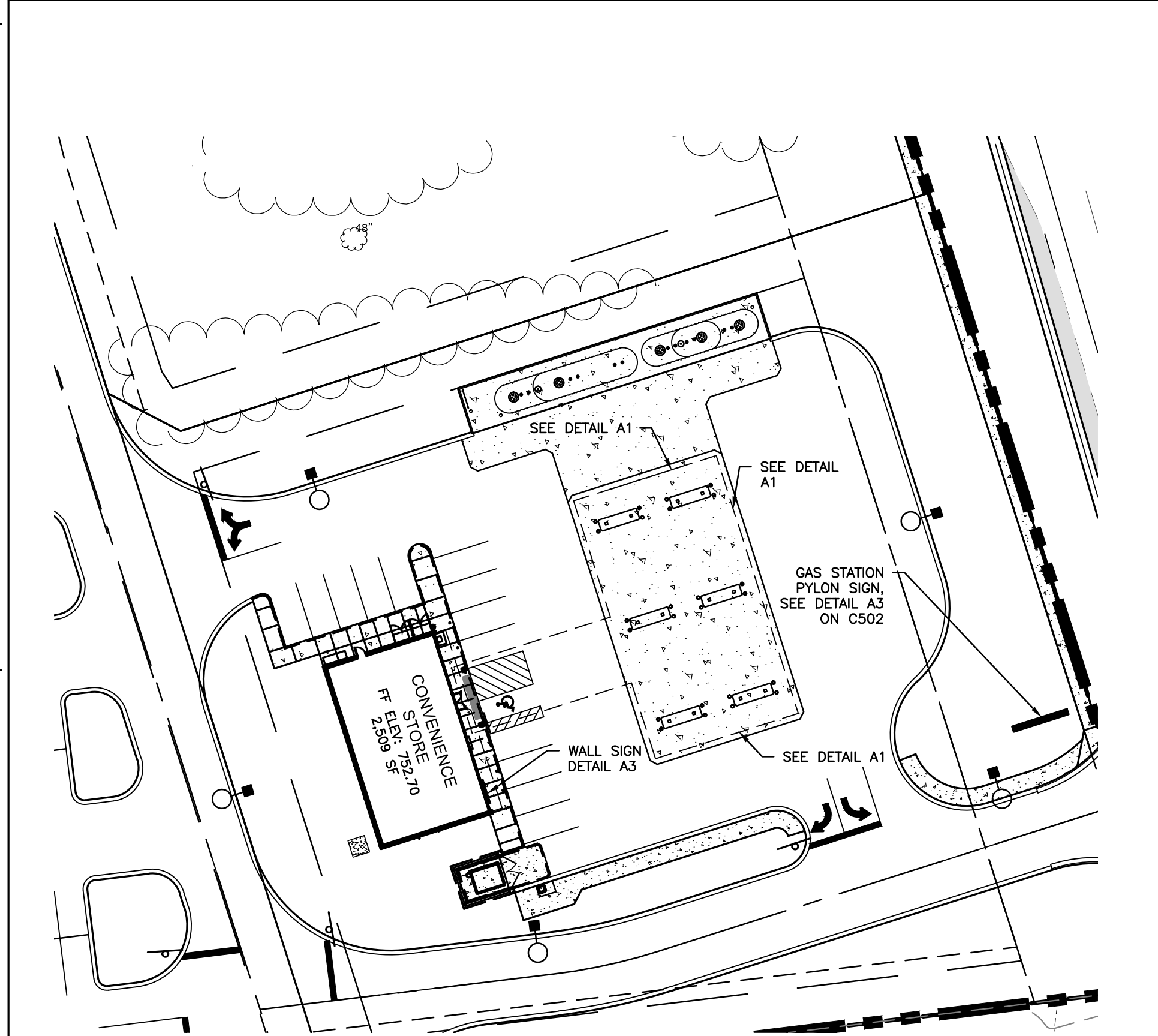




D1 EXTERIOR SIGNAGE PLAN - DS1.9 PROTOTYPE STORE

1" = 40'

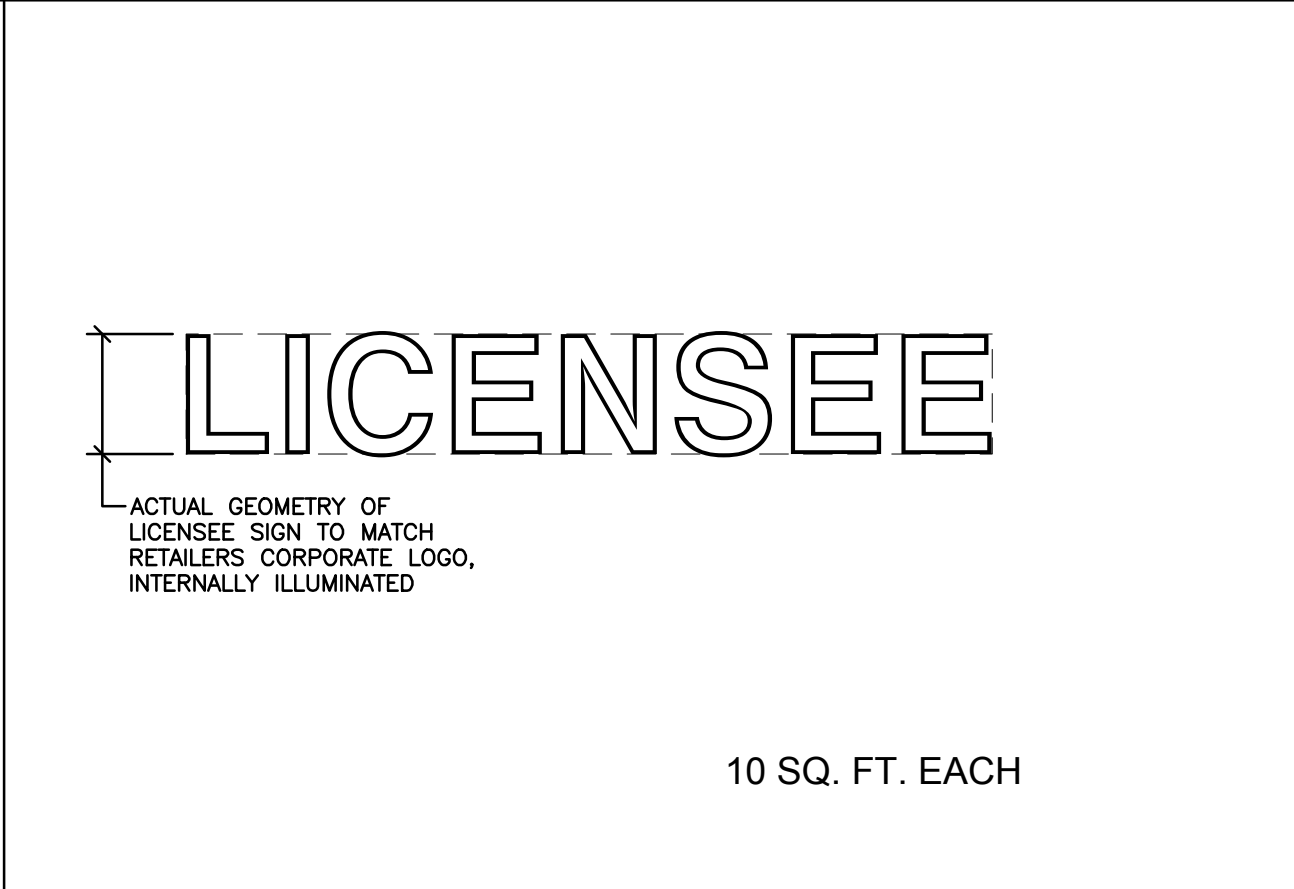
A1/C500



B1 EXTERIOR SIGNAGE PLAN - GAS STATION / CONVENIENCE STORE

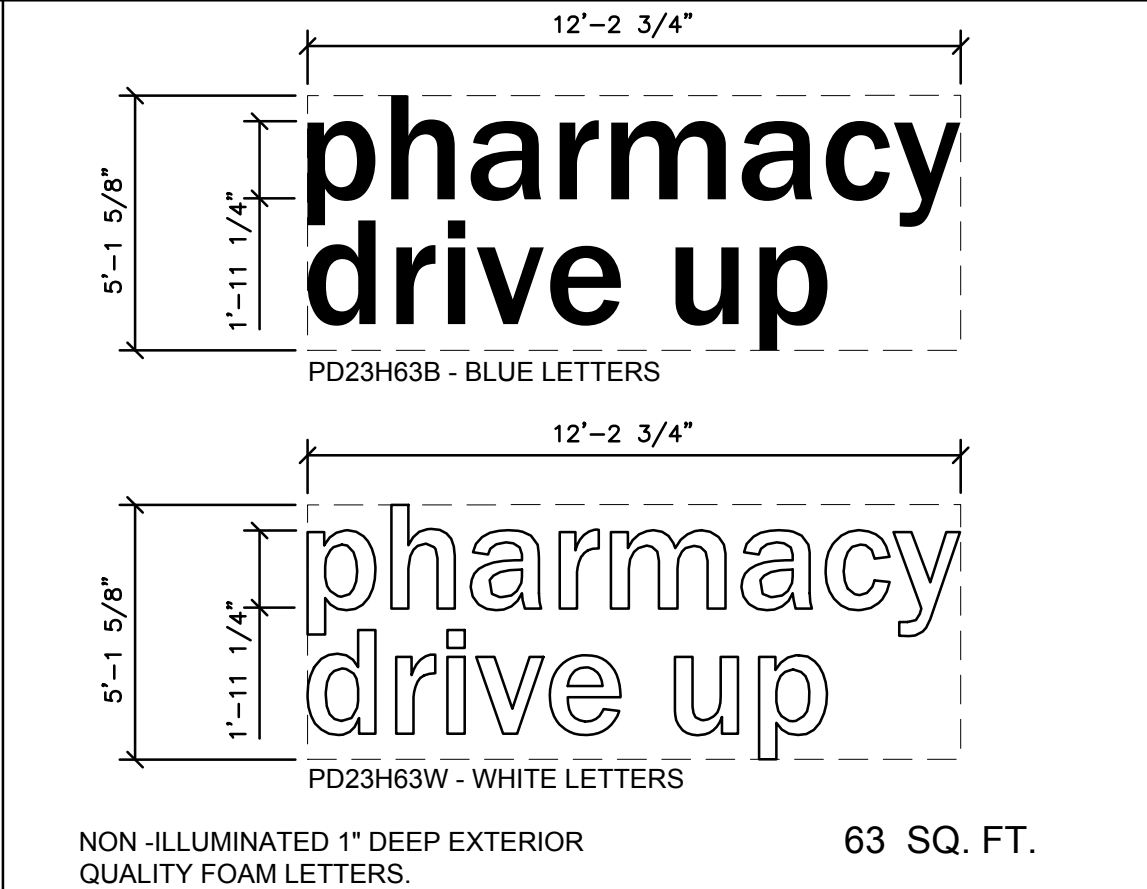
1" = 40'

A1/C500



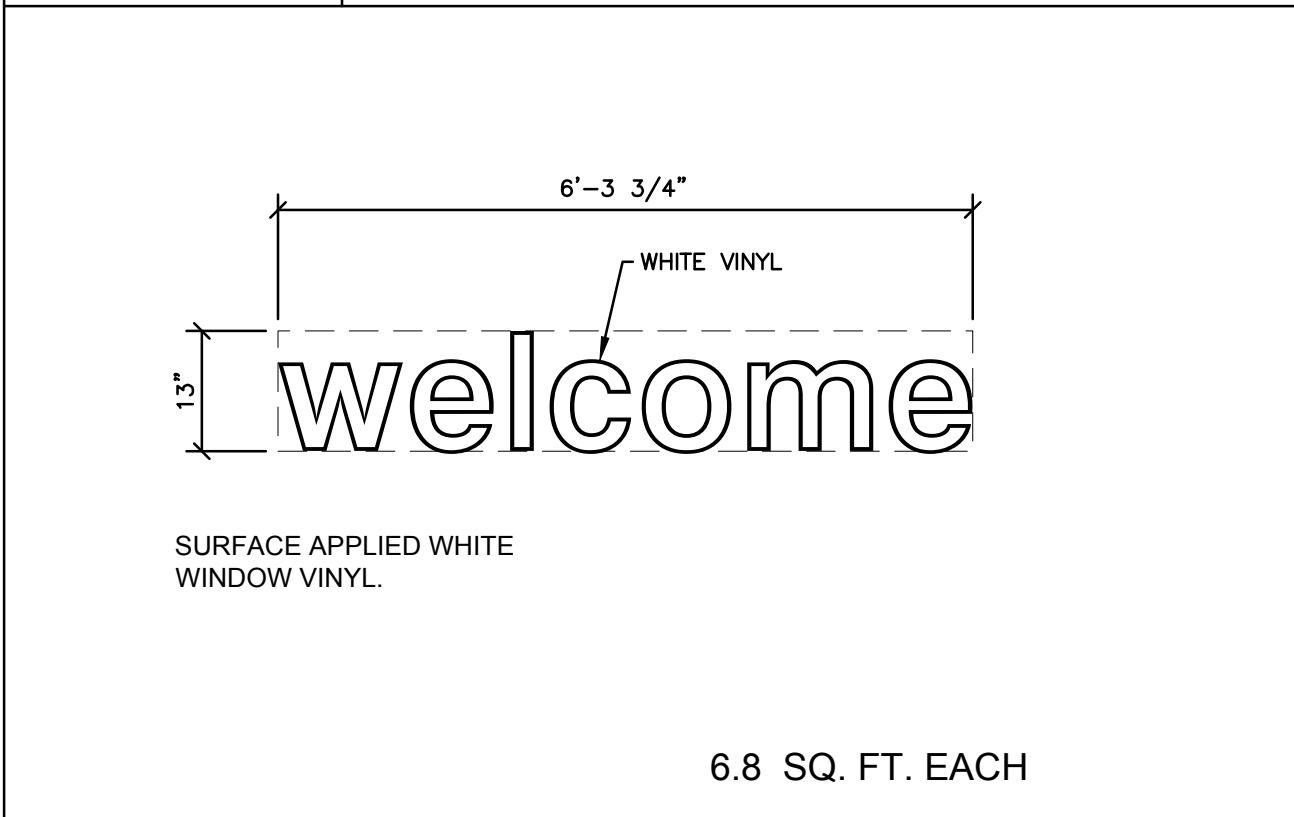
C2 LICENSEE SIGN

NTS



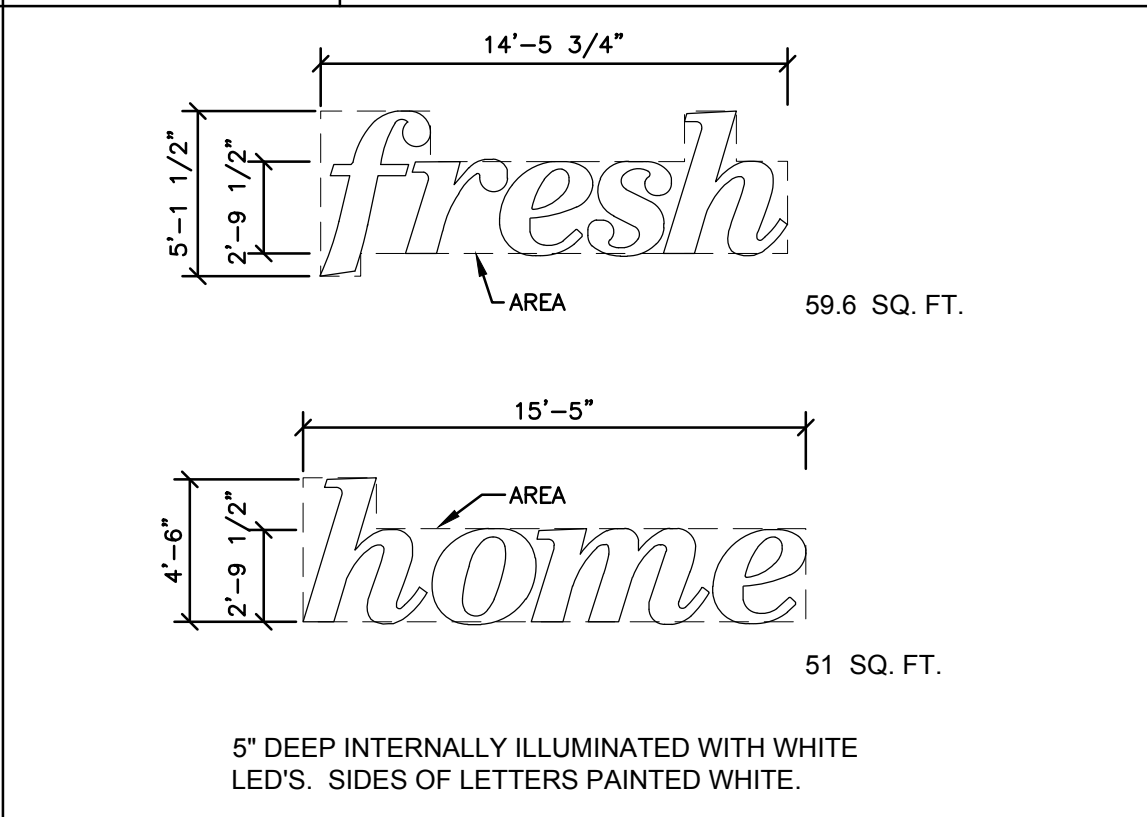
C4 PHARMACY SIGN

NTS



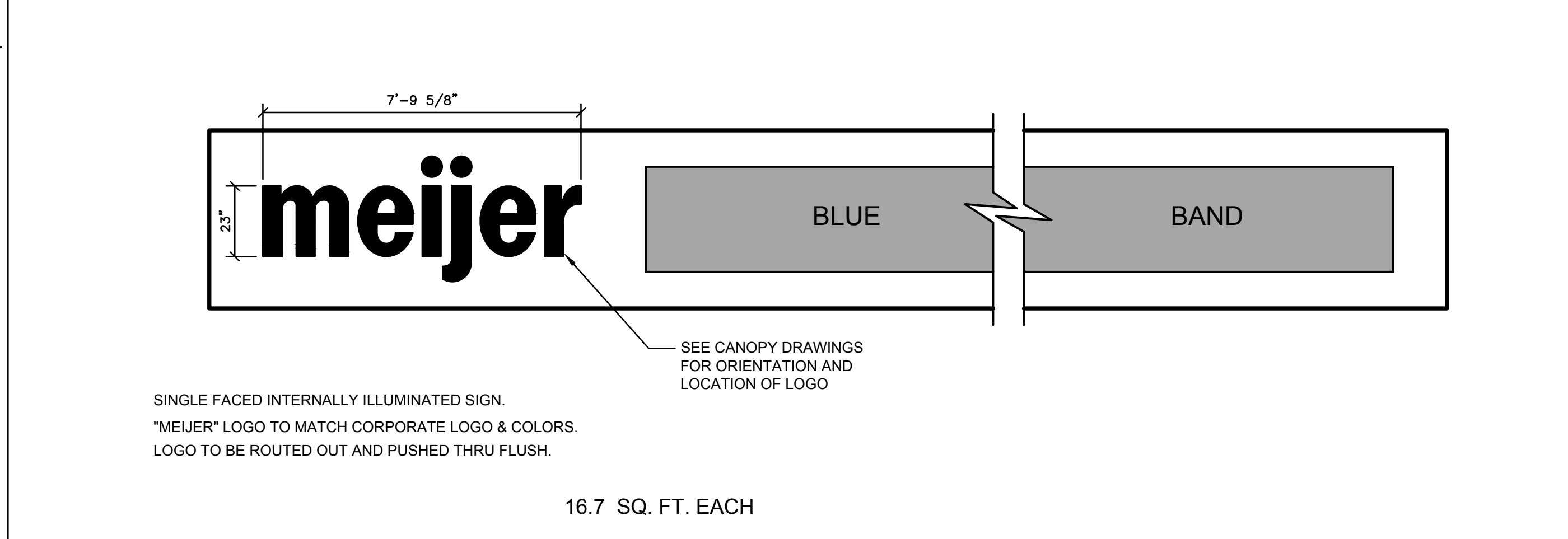
B2 WELCOME SIGN

NTS



B4 FRESH / HOME SIGNS

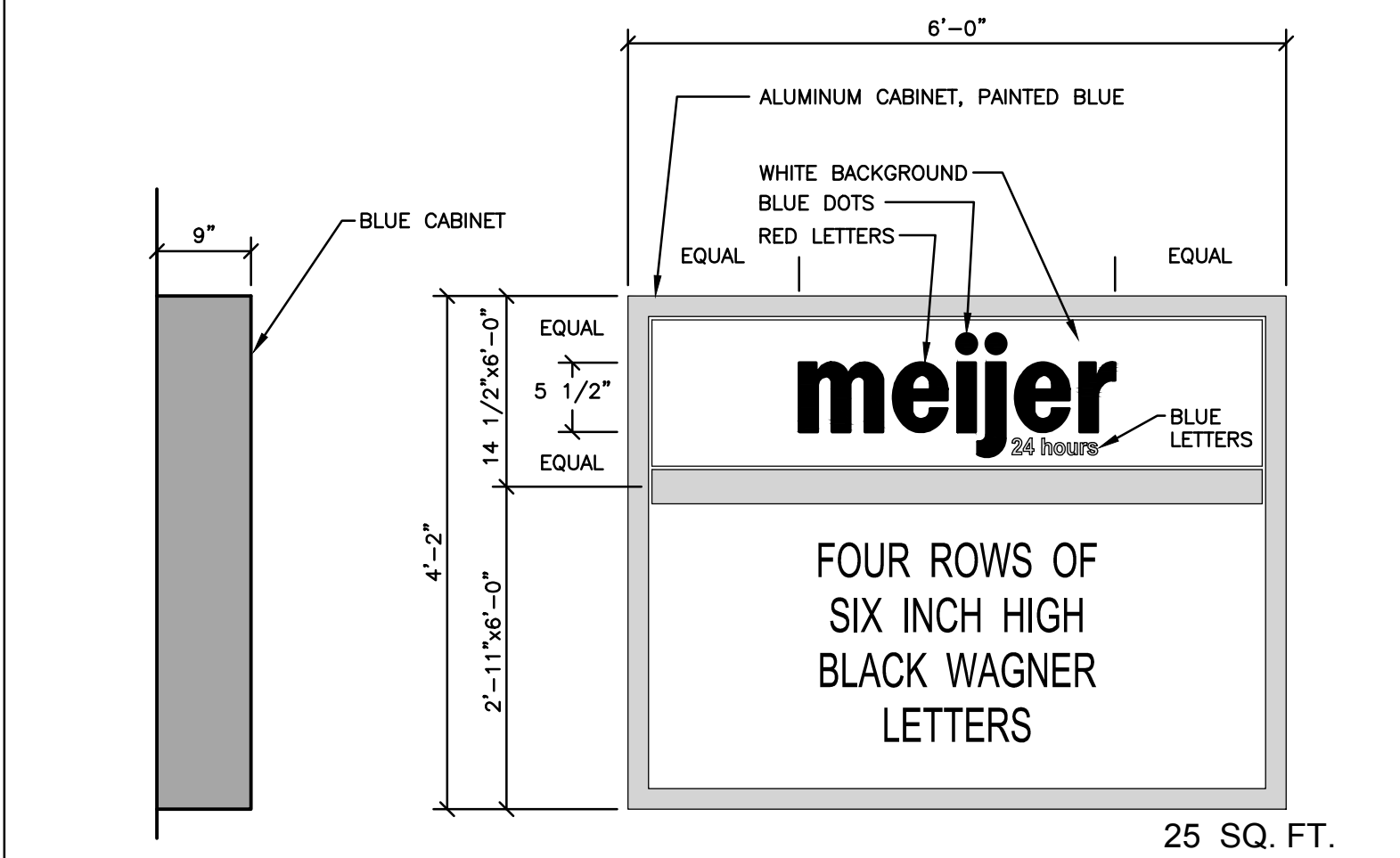
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A1 GAS CANOPY SIGN LAYOUT (3 SIDES OF CANOPY)

NTS

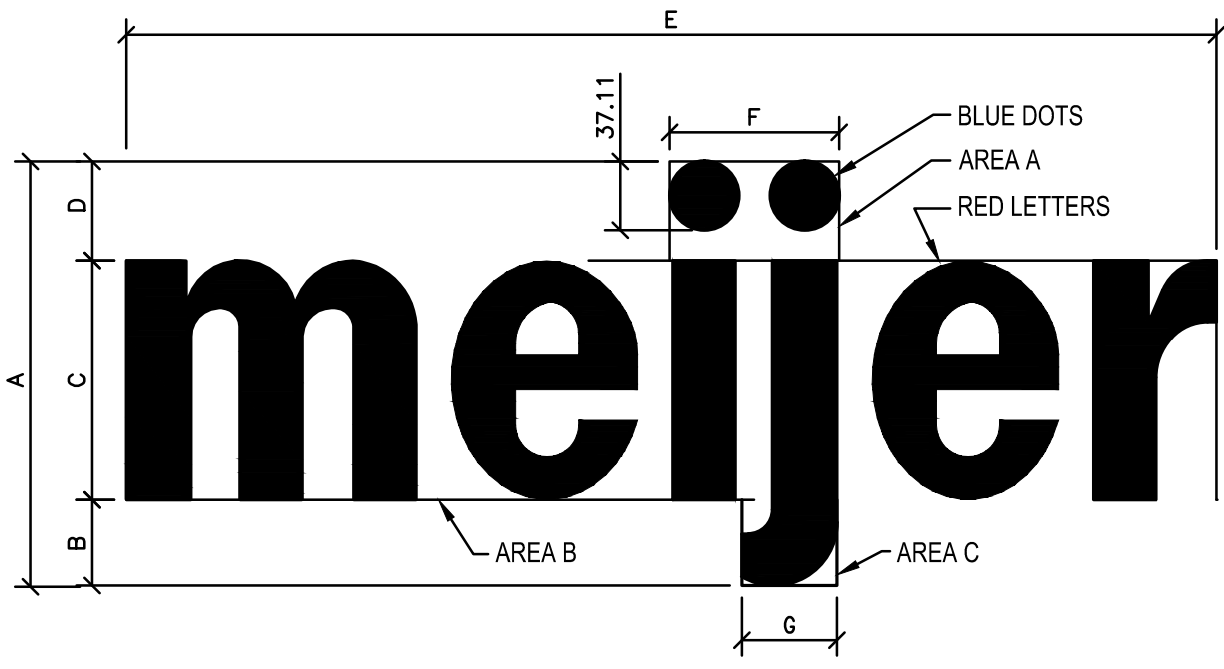
CL38H17



A3 CONVENIENCE STORE WALL SIGN

NTS

GAS CCW25



	A	B	C	D	E	F	G	SQ. FT.
WL120H499	17'-8"	3'-7 3/4"	10'-0"	4'-1 1/2"	45'-3 3/4"	7'-6 1/2"	4'-1/4"	498.9

INTERNALLY ILLUMINATED "MEIJER" CHANNEL LETTERS TO MATCH CORPORATE LOGO & COLORS.
SIDES OF LETTERS & RETAINERS TO BE PAINTED TO MATCH RESPECTIVE FACE COLORS.

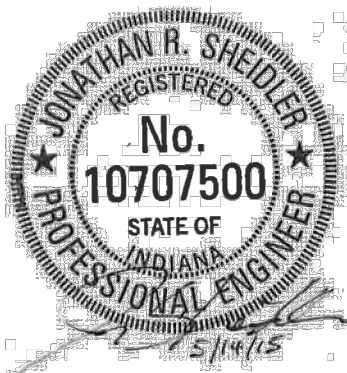
498.9 SQ. FT.

C5 MEIJER LOGO SIGN

NTS

STORE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
B2	2	welcome	13.6
C2	4	Licensee	40
C5	1	meijer	498.9
B4	1 ea.	fresh / home	110.6
C4	1	pharmacy	63.0
Total			726.1

CONVENIENCE STORE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
A3	1	Convenience Store Wall Sign	25
A1	3	Canopy Logo	50.1
Total			75.1



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meijer

STORE FRK
CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO.	REVISION	REV. DATE

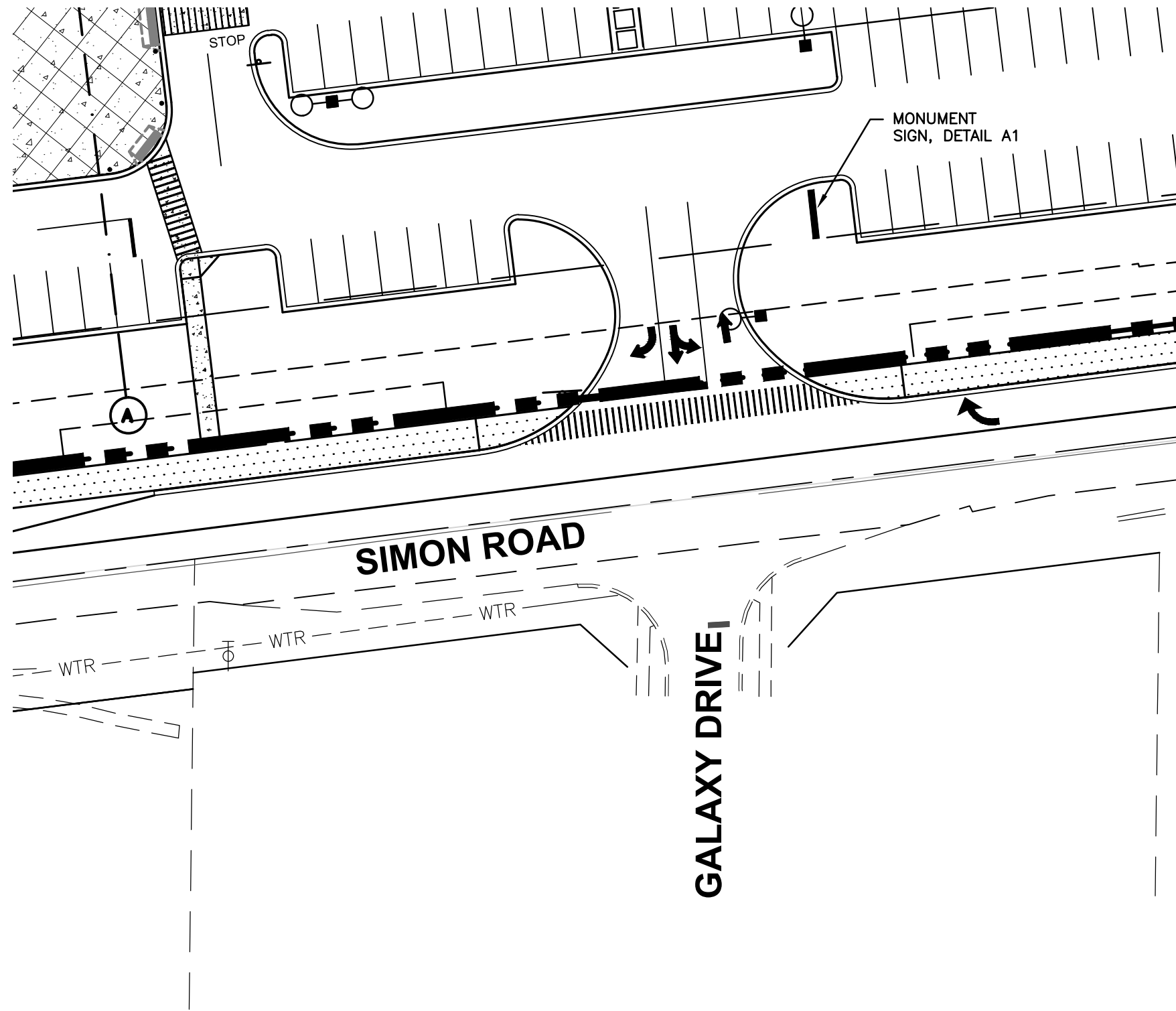
CONSTRUCTION MANAGED BY:

DESIGNED BY:	7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805
WOOLPERT	
DESIGN GEOGRAPHICAL INFRASTRUCTURE	

EXTERIOR SIGNAGE PLAN AND DETAILS

DRAWN BY	JMC	ISSUE	1	ISSUE DATE	05/14/15	SHEET NO.	C501
CHECKED BY	BJH	MEIJER PROJECT NO.		WOOLPERT PROJECT NO.	74485		

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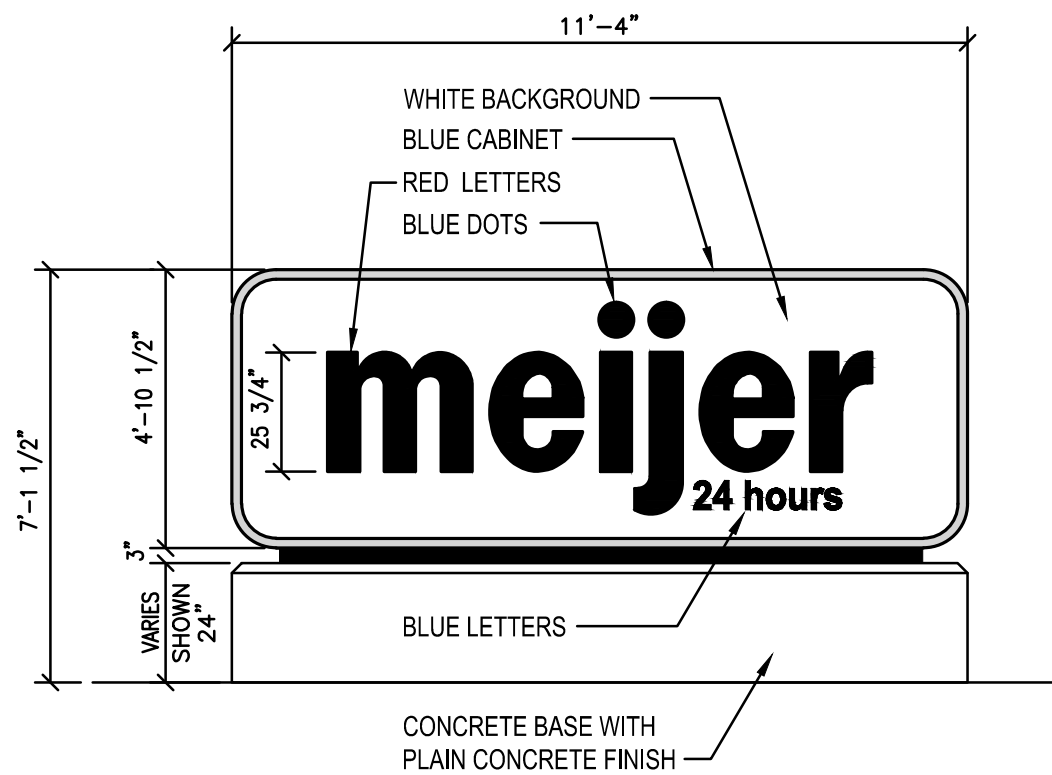


C1

EXTERIOR SIGNAGE PLAN - SIMON ROAD
ENTRANCE MONUMENT SIGN

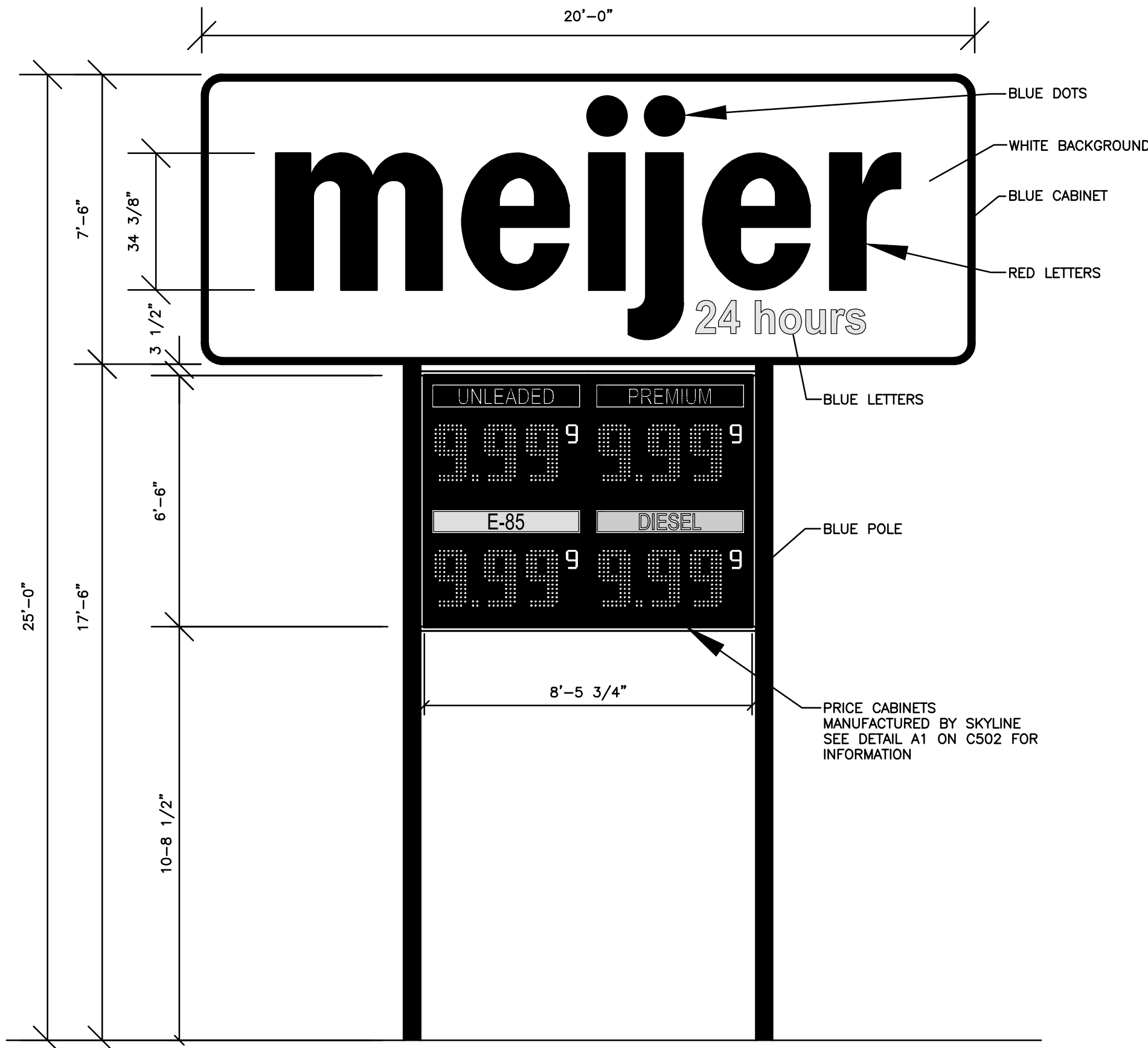
1" = 40'

A1/C500



DOUBLE FACED INTERNALLY ILLUMINATED CABINET
FABRICATED ALUMINUM CABINET

55.3 SQ. FT. EACH



SIGN CABINET: 150.0 SQ.FT.
PRICE CABINET: 55.1 SQ.FT.
TOTAL: 205.1 SQ.FT.

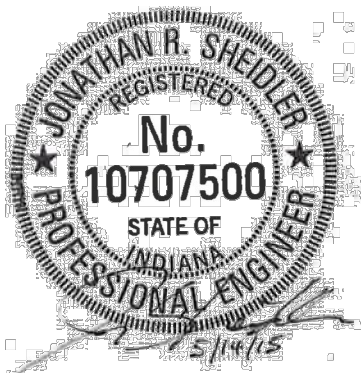
A3

GAS PYLON SIGN

NTS

25HP205PP

SITE SIGNAGE			
DETAIL	NO.	DESCRIPTION	SQUARE FEET
A1	2	Monument Sign	110.6
A5	1	Gas Pylon Sign	205.1



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STORE FRK
CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT** 7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805

EXTERIOR SIGNAGE PLAN AND DETAILS

DRAWN BY: KAC ISSUE: 1 ISSUE DATE: 05/14/15 SHEET NO. C502
CHECKED BY: BJH MEIER PROJECT NO. WOOLPERT PROJECT NO. 74485

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D

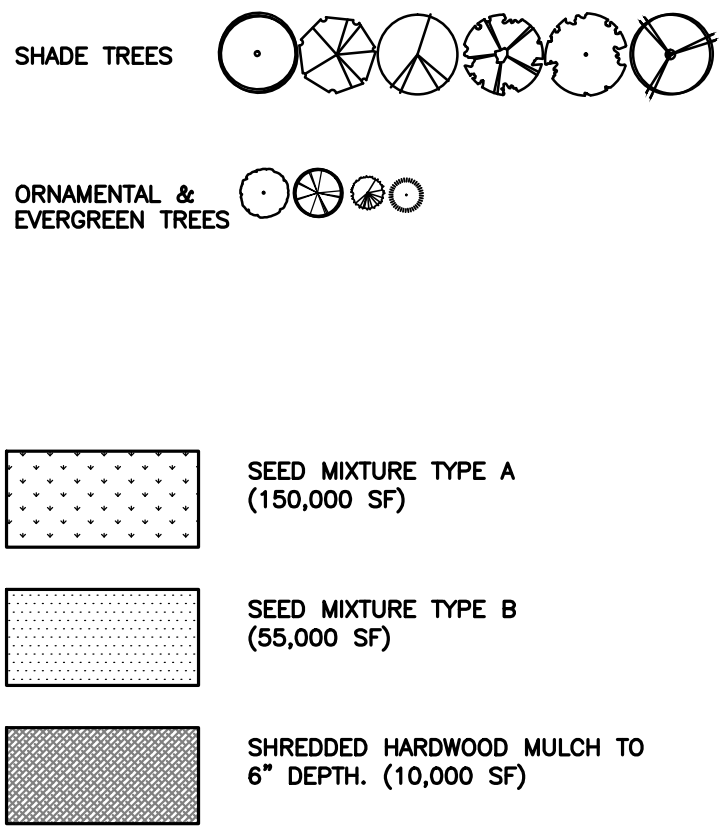
C

B

A

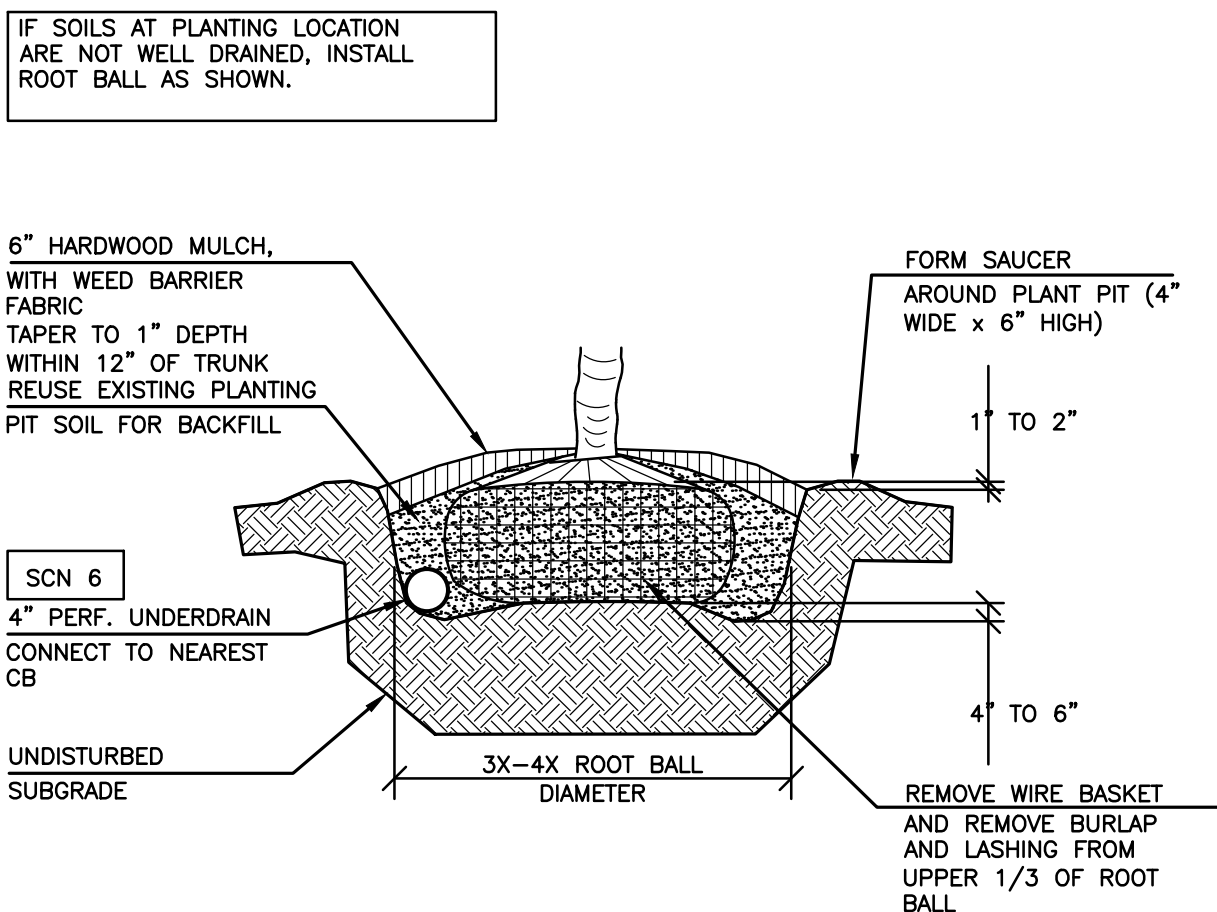
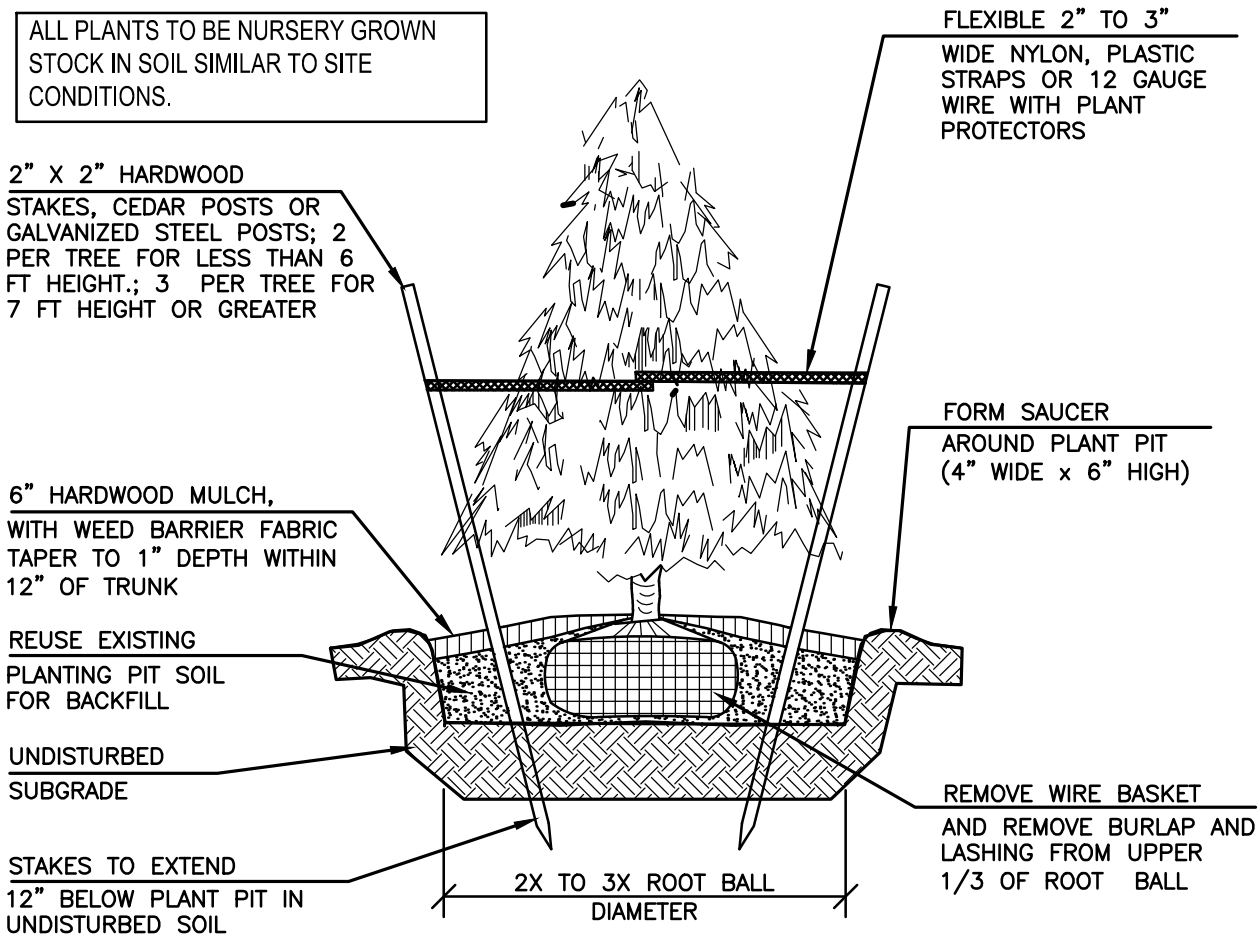
LAWN AREA SEED MIXTURE (TYPE A)			
COMMON NAME	PROPT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
KENTUCKY BLUE GRASS	30%	90%	80%
RED FESCUE	50%	95%	80%
PERENNIAL RYE GRASS	20%	95%	80%
APPLICATION RATE: 8 LBS/1000 FT²			

NON-LAWN AREA (TYPE B)			
COMMON NAME	PROPT BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
KENTUCKY BLUE GRASS	10%	90%	80%
RED FESCUE	40%	95%	80%
PERENNIAL RYE GRASS	50%	95%	80%
APPLICATION RATE: 4 LBS/1000 FT²			



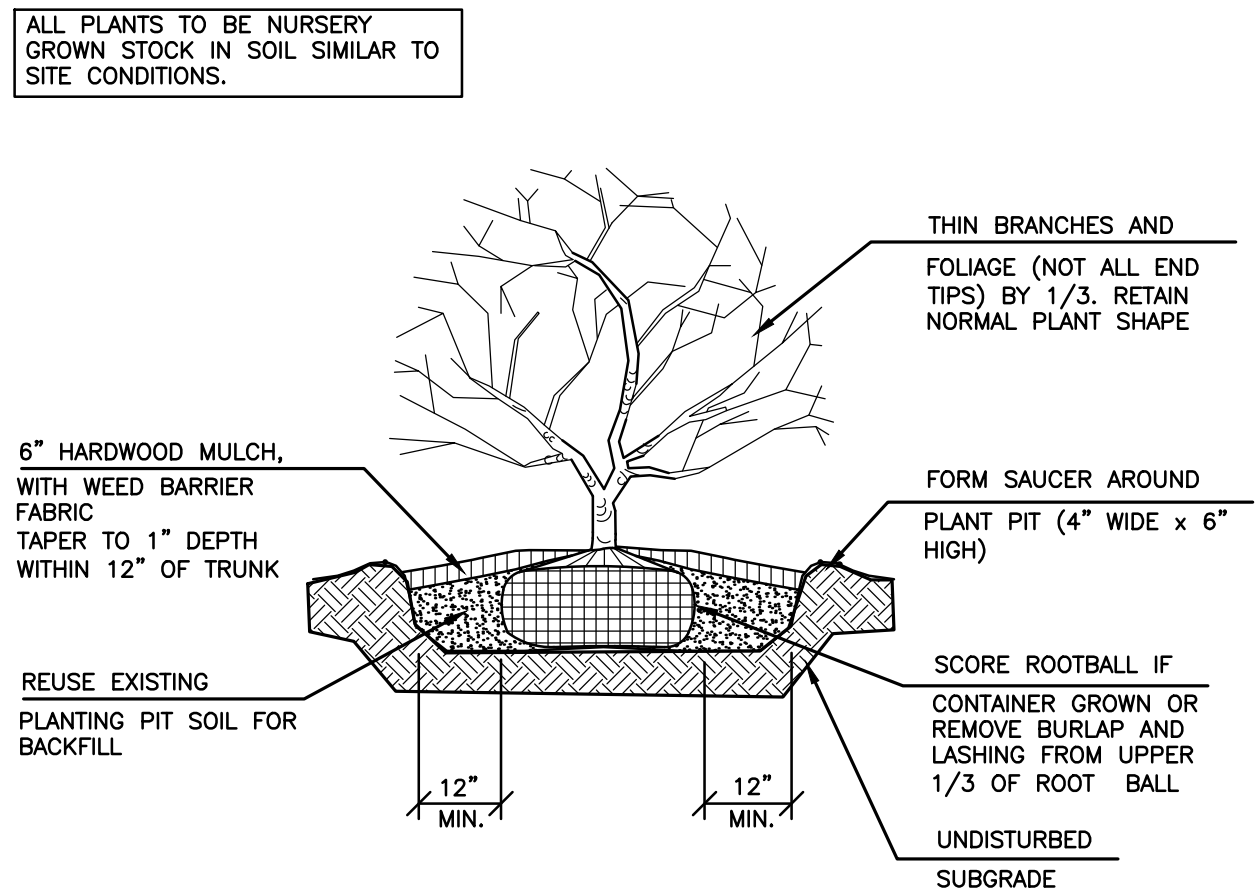
C1 LANDSCAPING LEGEND

NTS



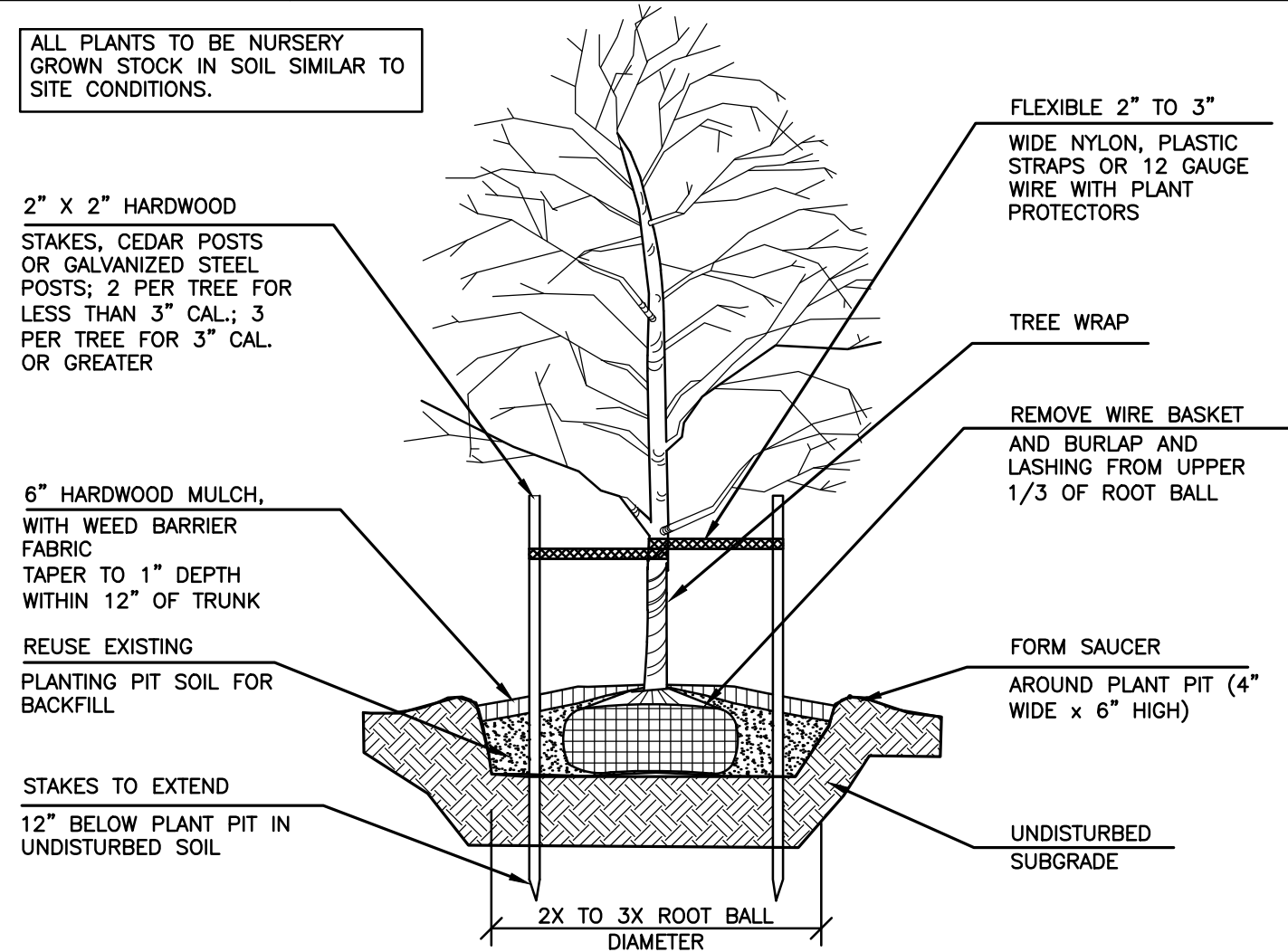
B1 EVERGREEN TREE

NTS



B2 POORLY DRAINED SOILS

NTS



A1 SHRUB PLANTING

NTS

A2 DECIDUOUS TREE PLANTING

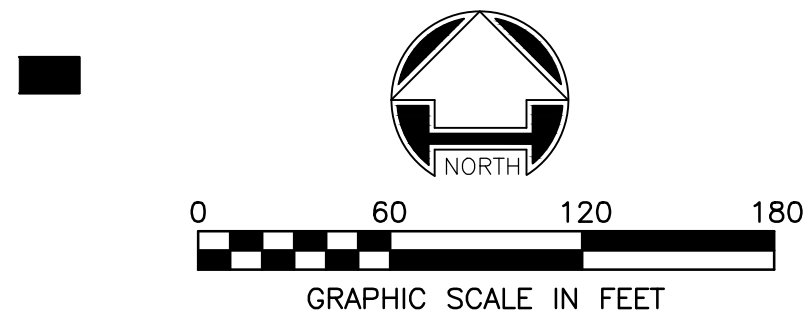
NTS

A3 LANDSCAPE PLANT SCHEDULE

NTS

TAG	QTY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	REMARKS
BROAD LEAF / DECIDUOUS TREE						
AF	26	Acer x freemanii 'Jeffersred'	Autumn Blaze Maple	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
CO	16	Carya ovata	Shagbark Hickory	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
CC	17	Cercis canadensis	Eastern Redbud	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
CP	23	Crataegus phaenopyrum	Washington Hawthorn	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
GT	11	Gleditsia triacanthos var. inermis 'Skyline'	Skyline Honeylocust	B&B	2.5" cal. 14'ht. 5'wd	Full, well shaped
KP	11	Koeleruteria paniculata	Golden Raintree	B&B	2.5" cal. 14'ht. 5'wd	Full, well shaped
LS	26	Liquidambar styraciflua 'Moraine'	Moraine Sweetgum	B&B	2.5" cal. 14'ht. 5'wd	Full, well shaped
MS	18	Malus 'Snowdrift'	Snowdrift Crabapple	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
OV	18	Ostrya virginiana	Hop Hornbeam	B&B	2.5" cal. 8'ht. 5'wd	Full, well shaped
PL	11	Platanus x acerifolia 'Bloodgood'	London Planetree	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
TD	40	Taxodium distichum	Bald Cypress	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
TA	24	Tilia americana 'Redmond'	Redmond American Linden	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
QA	29	Quercus alba	White Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
QI	6	Quercus imbricaria	Shingle Oak	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
UM	73	Ulmus japonica x wilsoniana 'Morton'	Accolade Elm	B&B	2.5" cal. 14'ht. 7'wd	Full, well shaped
EVERGREEN TREE						
PG	25	Picea glauca 'Densata'	Black Hills Spruce	B&B	8'ht. x 4'wd.	Full to ground, well shaped
PF	43	Pinus flexis	Limber Pine	B&B	8'ht. x 4'wd.	Full to ground, well shaped
PS	32	Pinus strobus	Eastern White Pine	B&B	8'ht. x 4'wd.	Full to ground, well shaped
LARGE SHRUB						
VR	15	Viburnum rhytidophyllum	Leatherleaf Viburnum	B&B	24"ht. x 24"wd.	Full, vigorous
SMALL SHRUB						
IV	9	Itea virginica 'Little Henry'	Little Henry Sweetspire	#3 cont.	18"ht. x 18"wd.	Full, vigorous
PM	13	Pinus mugo 'Mops'	Dwarf Mugo Pine	#3 cont.	18"ht. x 18"wd.	Full, vigorous
PERENNIAL						
HE	15	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1 cont.		

QUANTITIES ARE PROVIDED CONVIENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OF PLANTS ON LANDSCAPE PLAN.



LANDSCAPE CODE SUMMARY

STREET TREE STANDARDS — 6.15.B
ONE TREE PER 35 FEET OF STREET FRONTAGE
REQUIRED:
COMMERCE DR (1295.5 LF) = 37.0 TREES
US HIGHWAY 31 (488.7 LF) = 13.9 TREES
SIMON ROAD (1267.3 LF) = 36.2 TREES
PROVIDED:
COMMERCE DR: 37 TREES
US HIGHWAY 31: 14 TREES
SIMON ROAD: 36 TREES

PROPERTY INTERIOR REQUIREMENTS — 7.16.D
25% OF SITE TO BE YARD AREA PER 3.19 MIXED—USED: REGIONAL CENTER (MAX) REQUIREMENTS
1 TREE PER 1,500 SF OF REQUIRED YARD AREA
REQUIRED:
LOT 1: 223,898 SF OF REQ. OPEN SPACE = 149.3 TREES
LOT 3: 19,057 SF OF REQ. OPEN SPACE = 12.7 TREES
PROVIDED:
LOT 1: 150 TREES
LOT 3: 6 ORNAMENTAL TREES
6 EVERGREEN TREES

PARKING LOT PERIMETER REQUIREMENTS — 7.16.E
1 TREE AND 1 SHRUB FOR EVERY 80 LF OF PARKING ADJACENT TO PROPERTY LINE
REQUIRED:
COMMERCE DR (243 LF): 3.03 TREES & SHRUBS
SIMON ROAD (886 LF): 11.08 TREES & SHRUBS
PROVIDED:
COMMERCE DR (243 LF): 3 CANOPY TREES
3 SHRUBS
SIMON ROAD (886 LF): 11 CANOPY TREES
12 SHRUBS

PARKING LOT INTERIOR REQUIREMENTS — 7.18.F
5% OF ALL PAVED SURFACE TO BE LANDSCAPE AREAS
1 TREE PER 300 SF OF REQUIRED LANDSCAPE AREA
REQUIRED:
LOT 1: 417253 SF. PAVED SURFACE = 20,863 SF LNDSCP
LOT 3: 20,863 SF LNDSCP = 69.5 TREES
LOT 3: 40,892 SF PAVED SURFACE = 2,045 SF LNDSCP
2,045 SF LNDSCP = 6.8 TREES
PROVIDED:
LOT 1: 44 CANOPY TREES
26 ORNAMENTAL TREES
LOT 3: 4 CANOPY TREES
3 EVERGREEN TREES

BUFFER YARD REQUIREMENTS — 7.17.A.2
BUFFER YARD TYPE 2: ONE DECIDUOUS TREE OR TWO CONIFEROUS TREES PER 25 LF OF BOUNDARY
REQUIRED:
SIMON ROAD (907.2 LF): 36.3 DECIDUOUS OR 72.6 CONIFEROUS
WEST BND (796 LF): 31.8 DECIDUOUS OR 63.7 CONIFEROUS
PROVIDED:
SIMON RD: 37 EVERGREEN TREES
20 ORNAMENTAL TREES
16 CANOPY TREES
WEST BND: 32 CONIFEROUS TREES

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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY: **WOOLPERT**
DESIGN | GEOGRAPHICAL | INFRASTRUCTURE

7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

LANDSCAPE DETAILS

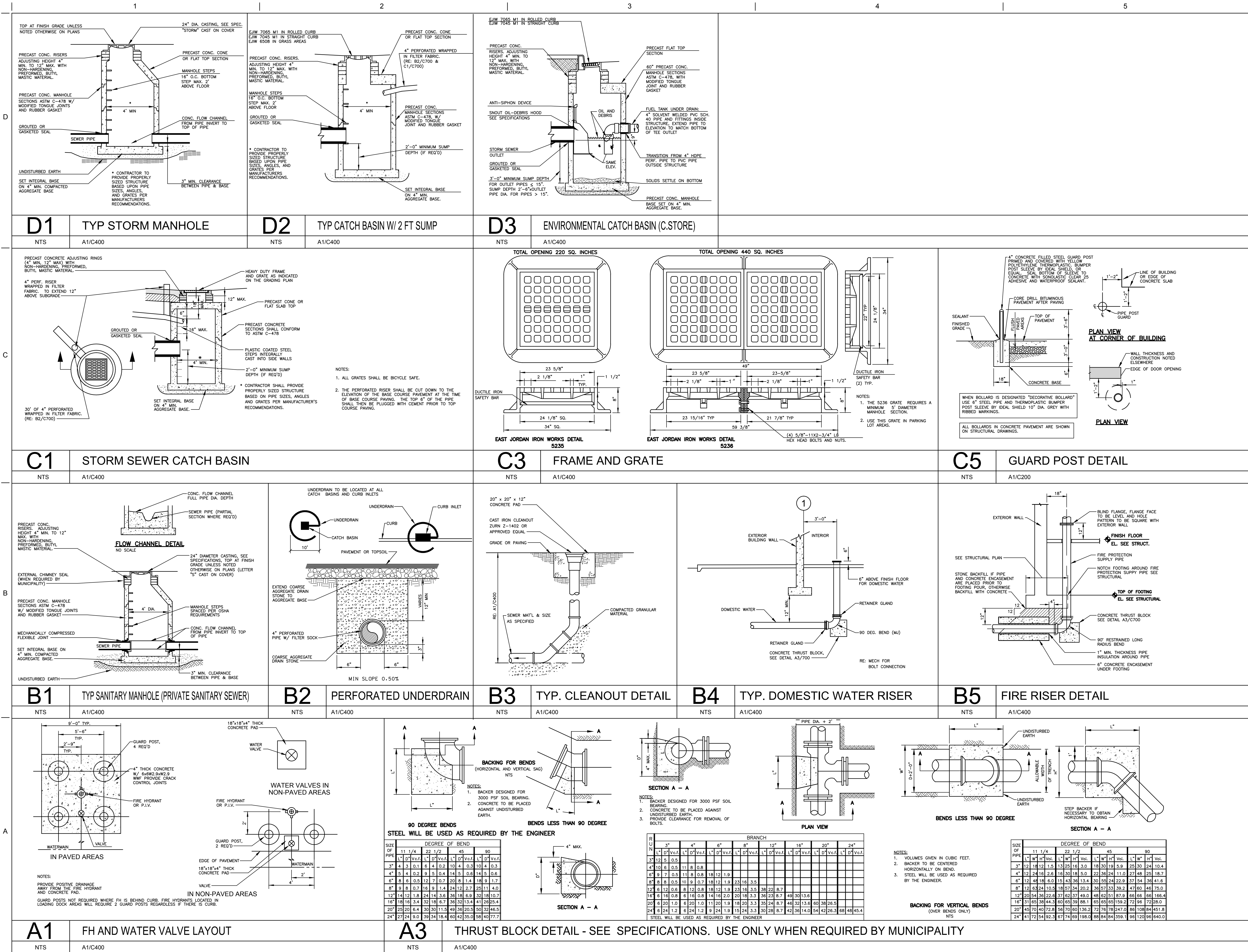
DRAWN BY: JM
CHECKED BY: BJH

ISSUE: 1
MEIER PROJECT NO: 74485

ISSUE DATE: 05/14/15
WOOLPERT PROJECT NO: 74485

SHEET NO. C601

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REVISION NO. REVISION

DESIGNED BY: WOOLPERT

7635 Interactive Way Suite 100 Indianapolis, IN 46278 317.299.7500 FAX: 317.291.5805

DETAILS

DRAWN BY: SMB

ISSUE: 1

ISSUE DATE: 05/14/15

SHEET NO.: C700

CHECKED BY: BJH

WOOLPERT PROJECT NO.: 74485

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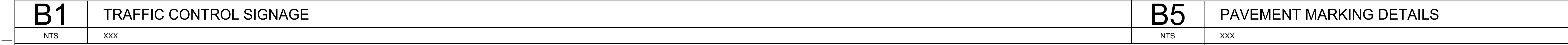
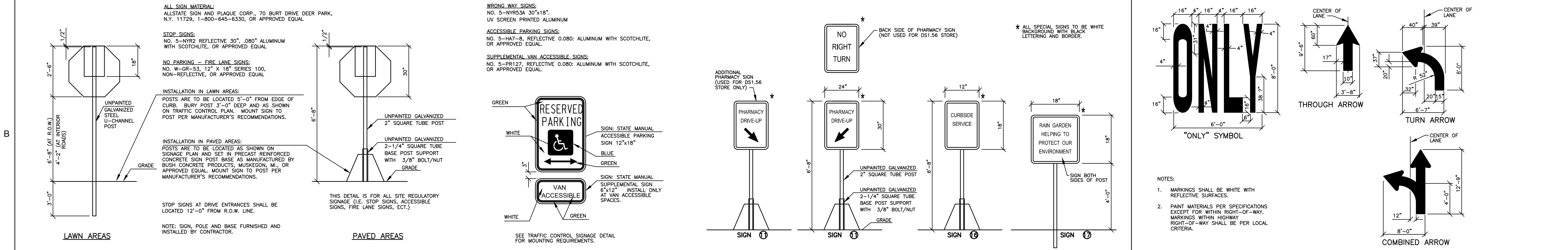
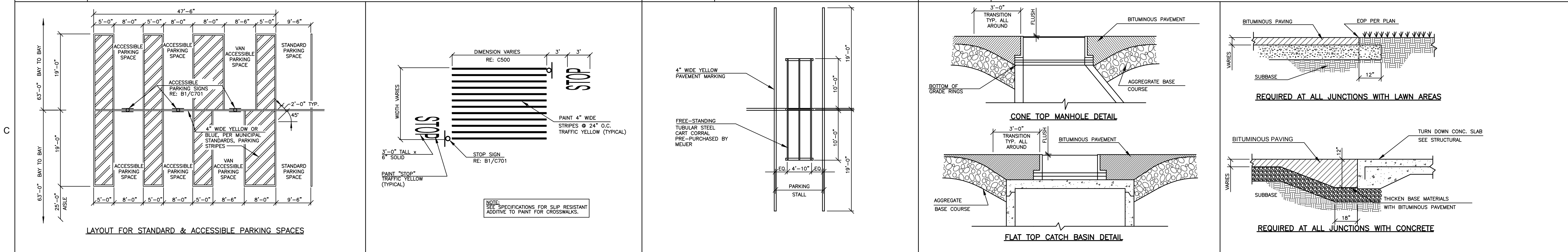
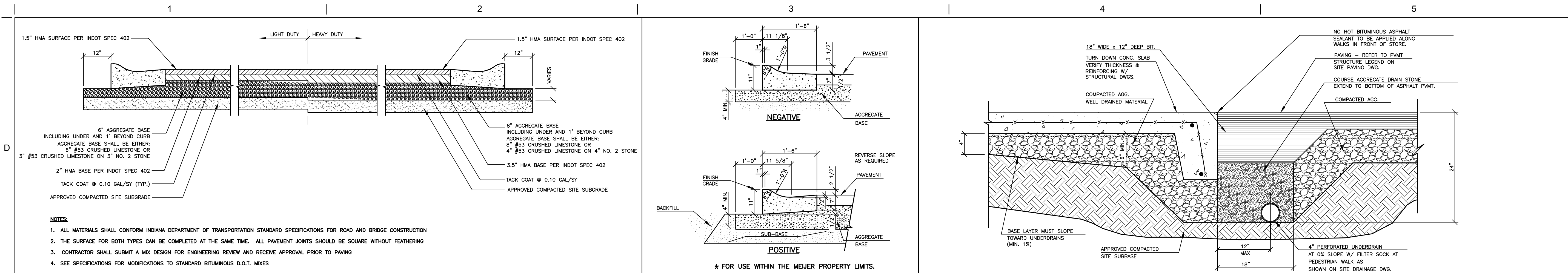
JOINTHAN R. SHEPHERD REGISTERED PROFESSIONAL ENGINEER No. 10707500 STATE OF INDIANA 5/14/15

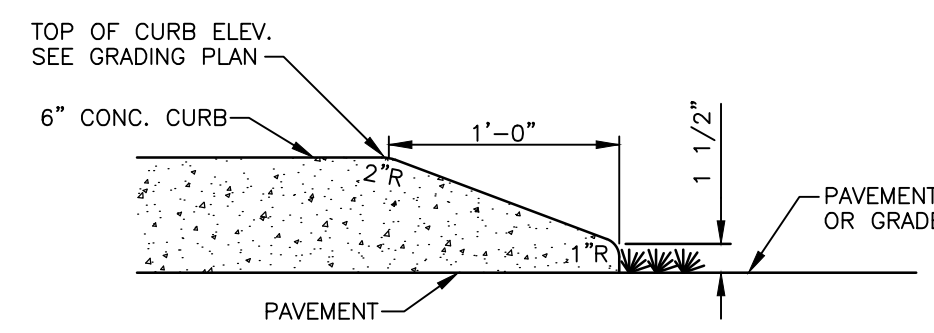
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STORE FRK CONSTRUCTION PLANS

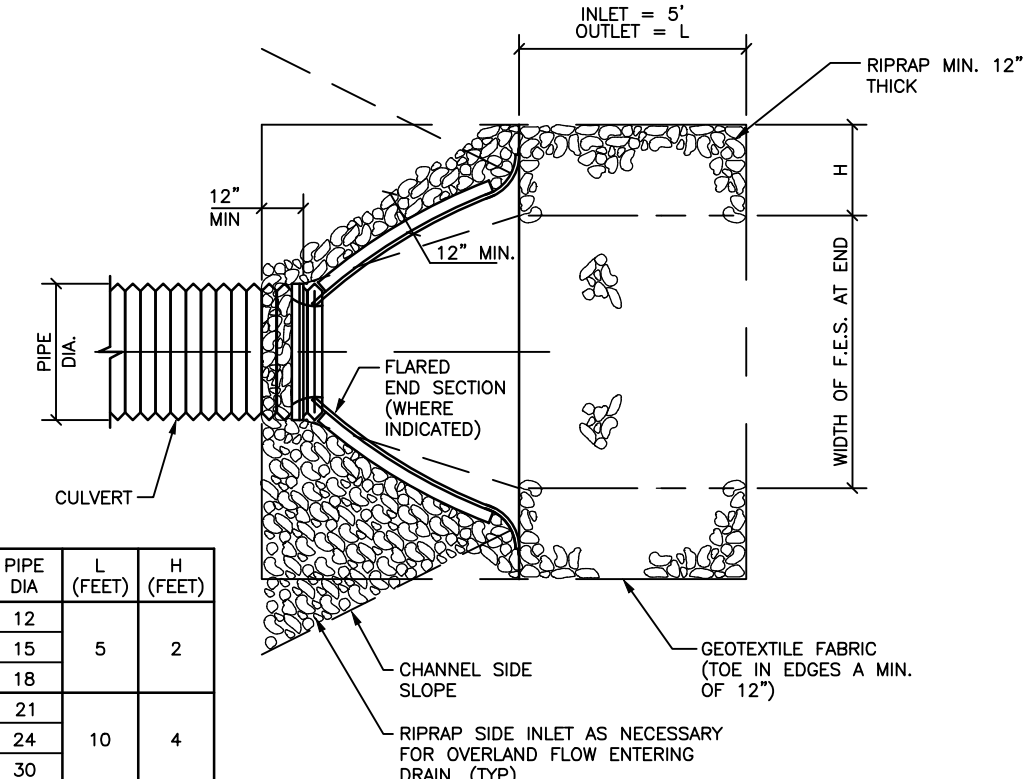
2929 WALKER AVENUE GRAND RAPIDS, MICHIGAN 49544 (616) 453-6711





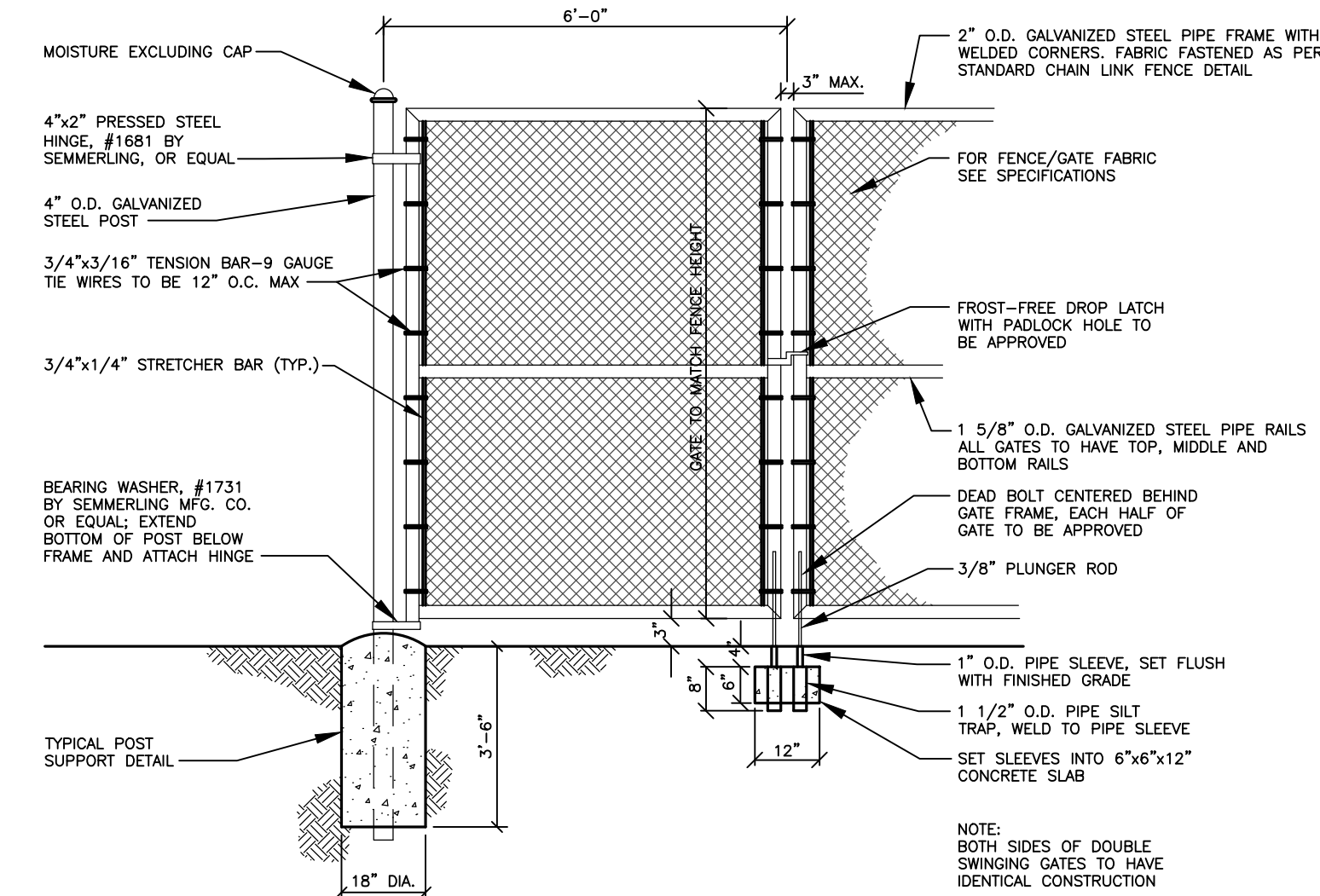
D5	CURB END TAPER
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NTS	A1/C200
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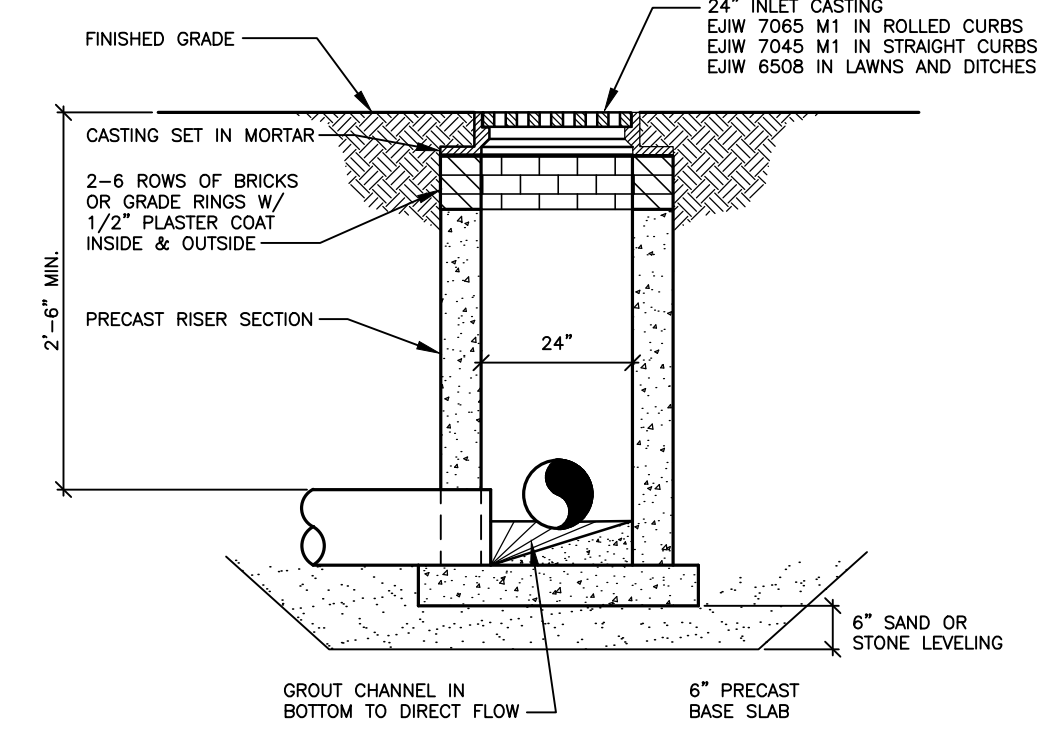
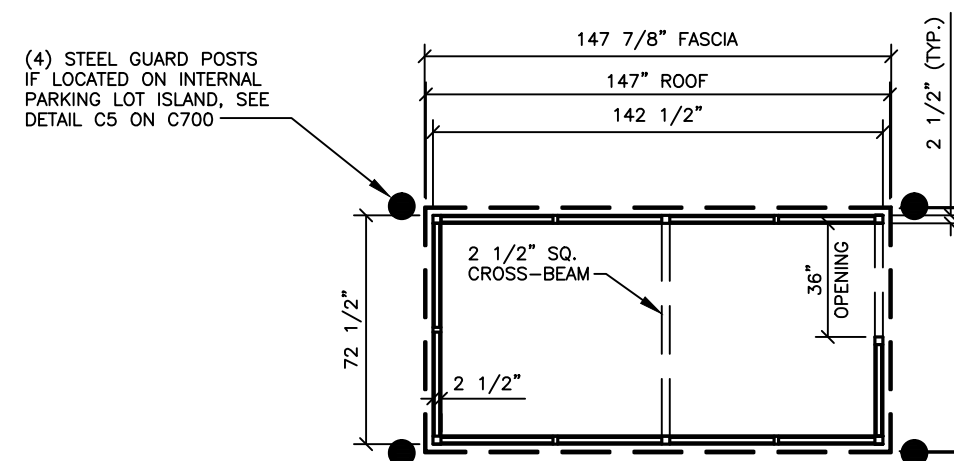
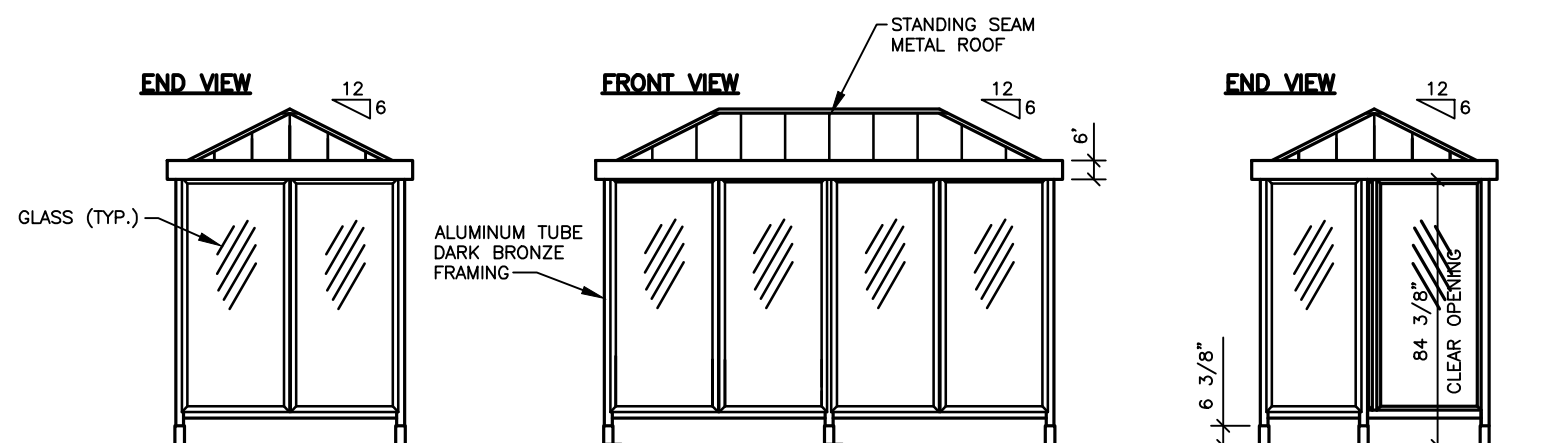
PIPE DIA	L (FEET)	H (FEET)
12	5	2
15		
18		
21	10	4
24		
30		
36	15	6
42		
48		
54	20	8
60		
66		
72		
78		
84		

NOTE:
 "H" PROVIDES FOR RIPRAP UP TO THE MIDPOINT OF THE AVERAGE PIPE DIAMETER IN THE GROUPING.
 "L" FOLLOWS MINIMUM APRON LENGTHS BASED ON EMPIRICAL FORMULA U.S.E.P.A. 1976 $L=3Q/D^{3/2}$ FOR TAILWATERS GREATER THAN 0.5D (D=DIAMETER).



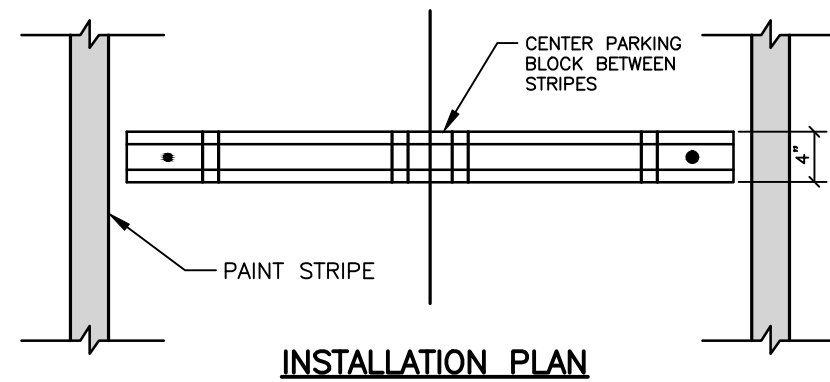
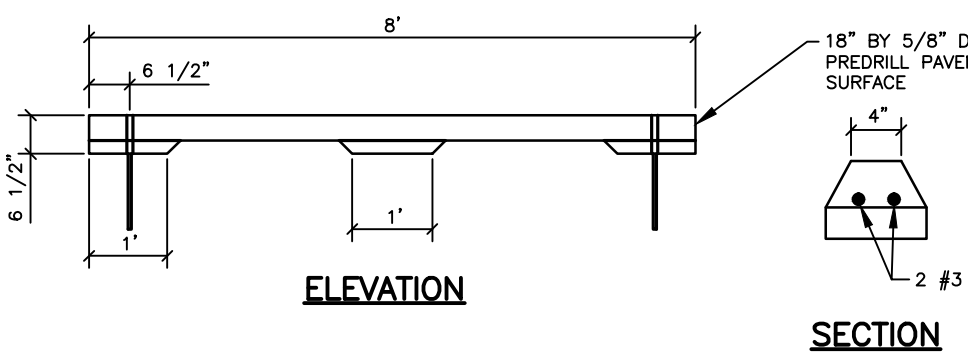
D2	DOUBLE GATE CHAIN LINK FENCE DETAIL
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NTS



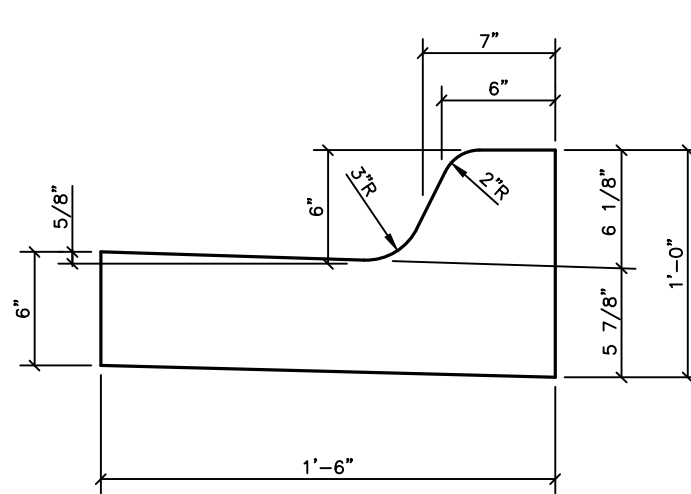
D4	24" DIA. CATCH BASIN
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NTS



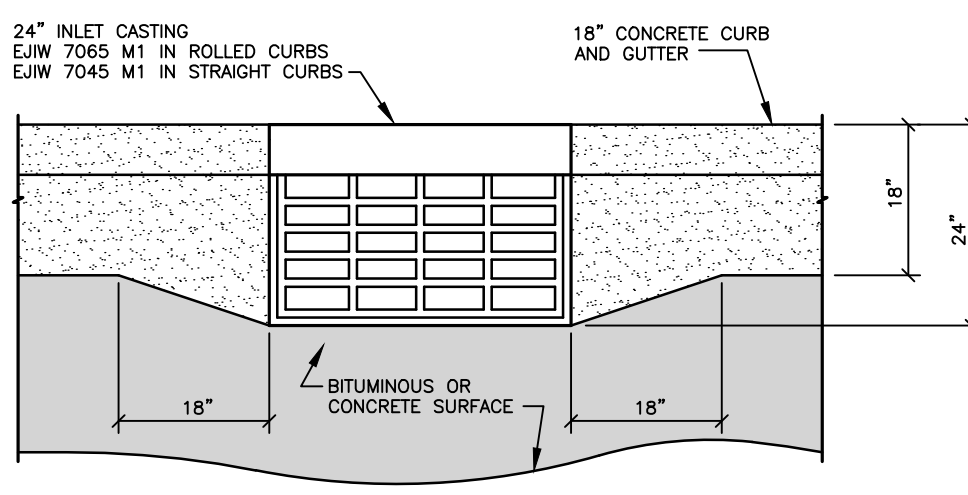
C4 PRECAST CONCRETE PARKING BLOCK

NTS



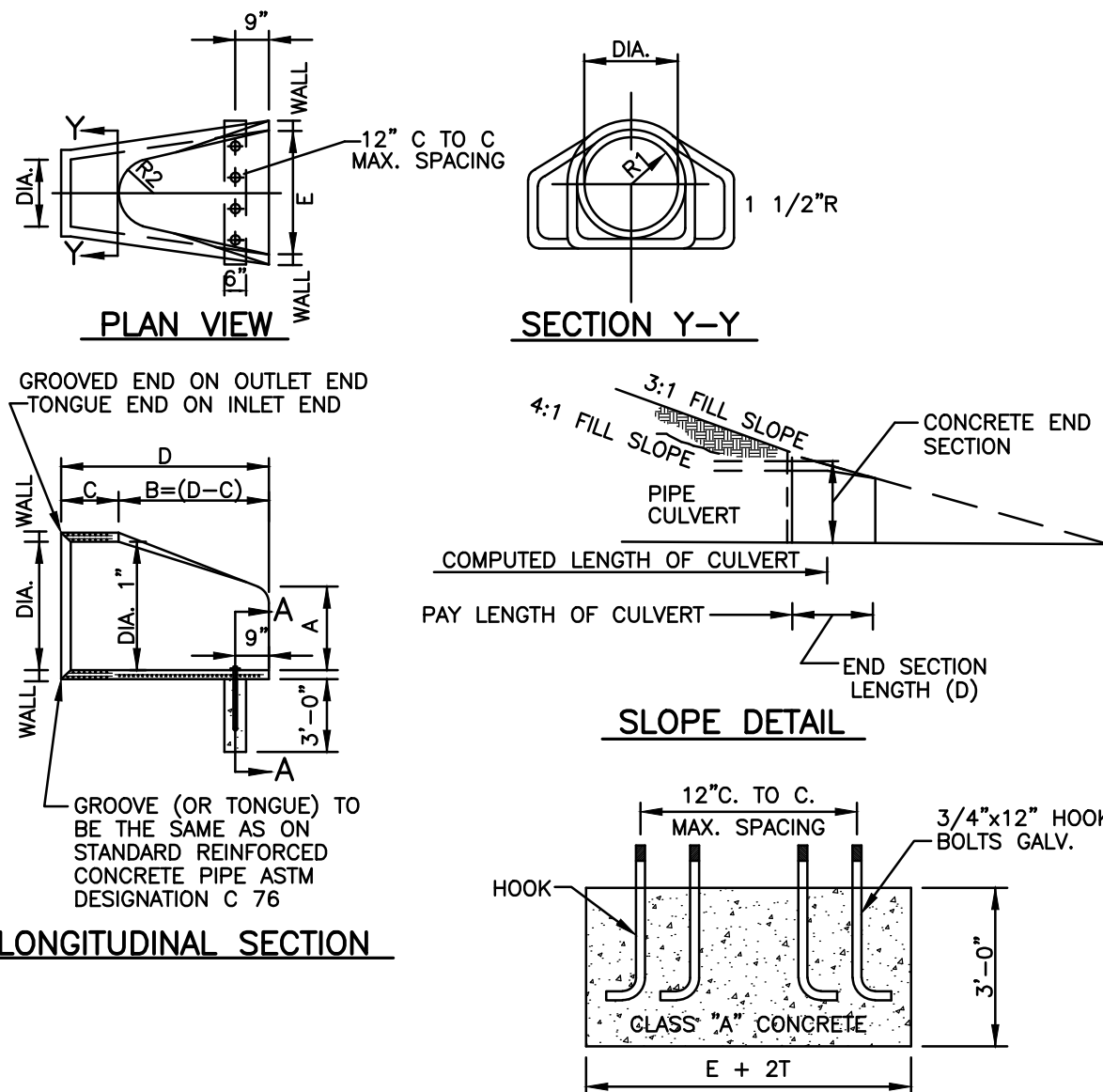
B4	STRAIGHT CURB
----	---------------

NTS



A4	CURB TRANSITION DETAIL
----	------------------------

NTS



DIA.	WALL	WT. SEC.	A	B	C	D	E	R-1	R-2	SKIRT
36	4	4100	15	63	34 3/4	97 3/4	72	24 1/16	20	5 1/2
54	5 1/2	8040	27	65	35	100	90	32 7/8	24	6 1/4

NOTES:

CONCRETE IN THESE SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 CLASS II (AS SET OUT IN STANDARD SPECIFICATIONS).

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR THE REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 CLASS II FOR THE SIZE OF CONNECTING PIPE.

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASEING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

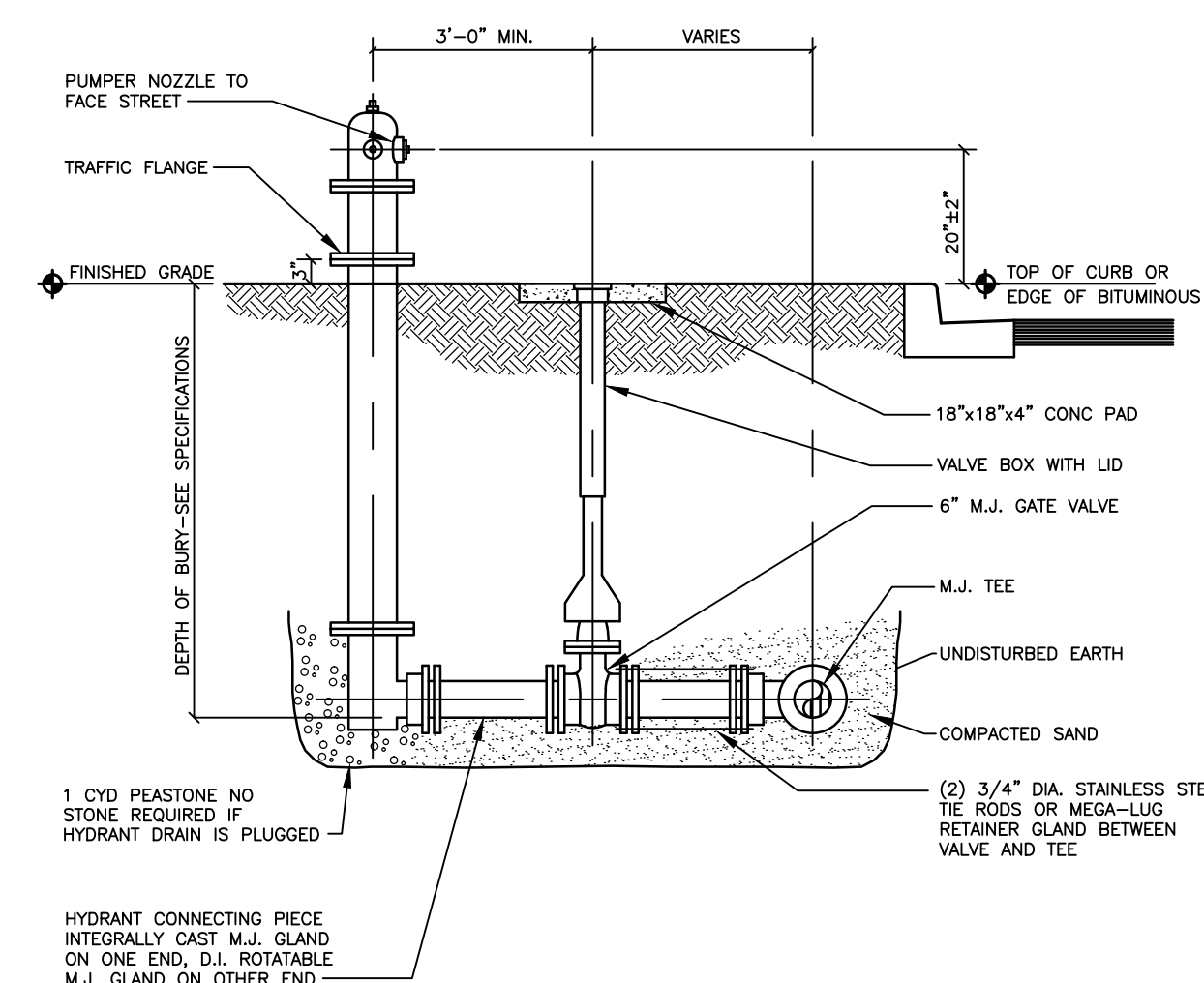
VARIATIONS IN DIMENSIONS - THE THICKNESS OF THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76.

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS.

-WOOLPERT DETAIL-

A5	PRECAST CONCRETE END SECTION
----	------------------------------

NTS

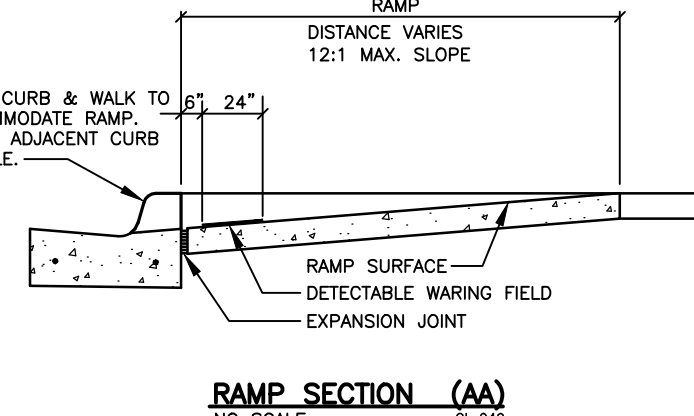
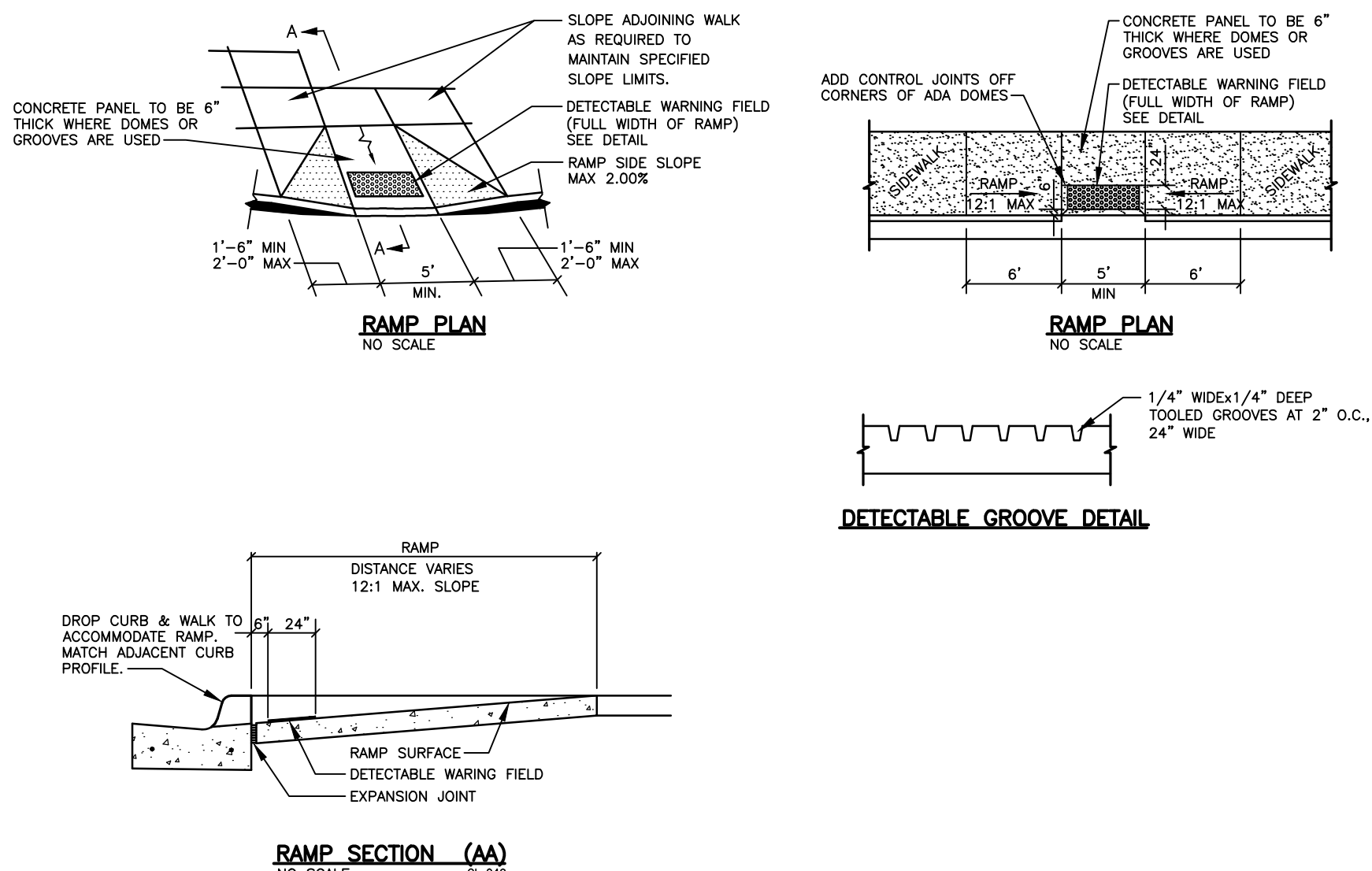


A5	HYDRANT ASSEMBLY DETAIL
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NTS

A2	SIDEWALK RAMP DETAILS
----	-----------------------

NTS



A

A circular professional engineer seal for Jonathan R. Sheidler, Registered Professional Engineer, State of Indiana. The seal includes the number 10707500 and a date stamp 5/14/15.

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STORE FRK CONSTRUCTION PLANS

2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

REVISION NO. REVISION REV. DATE

CONSTRUCTION MANAGED BY:

DESIGNED BY:



WOOLPERT

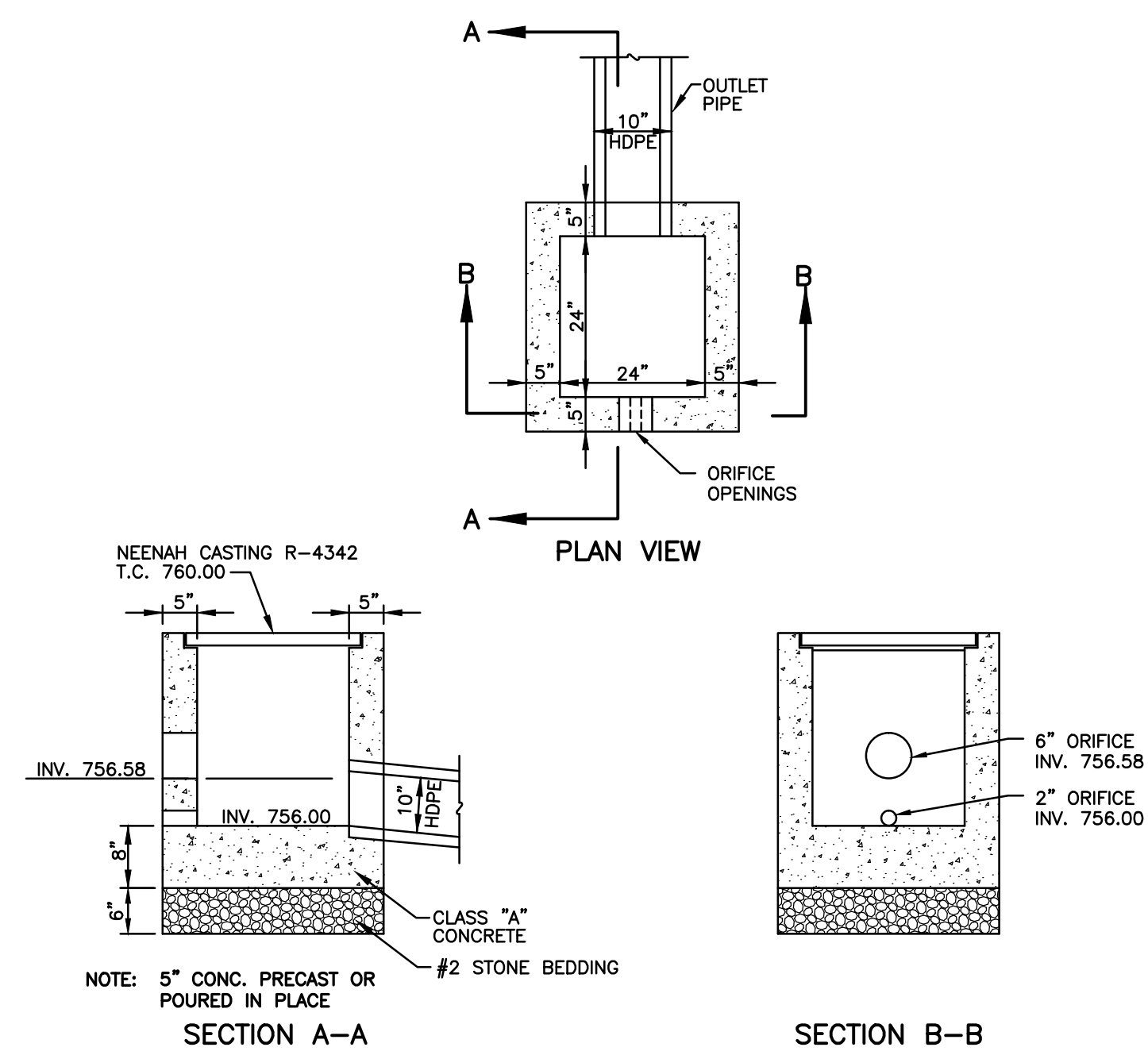
DESIGN | GEOSPATIAL | INFRASTRUCTURE

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Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

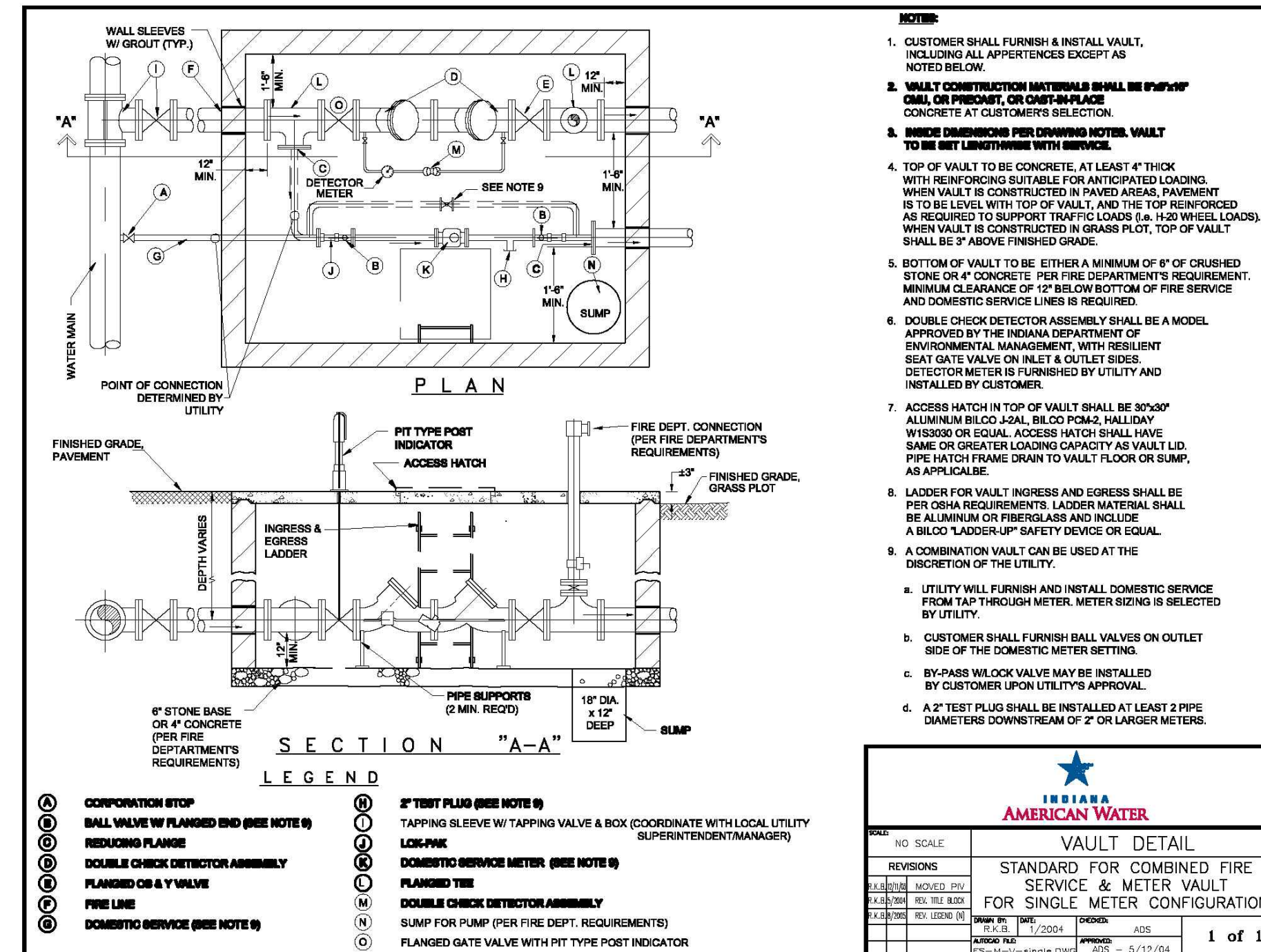
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BJH		74485	

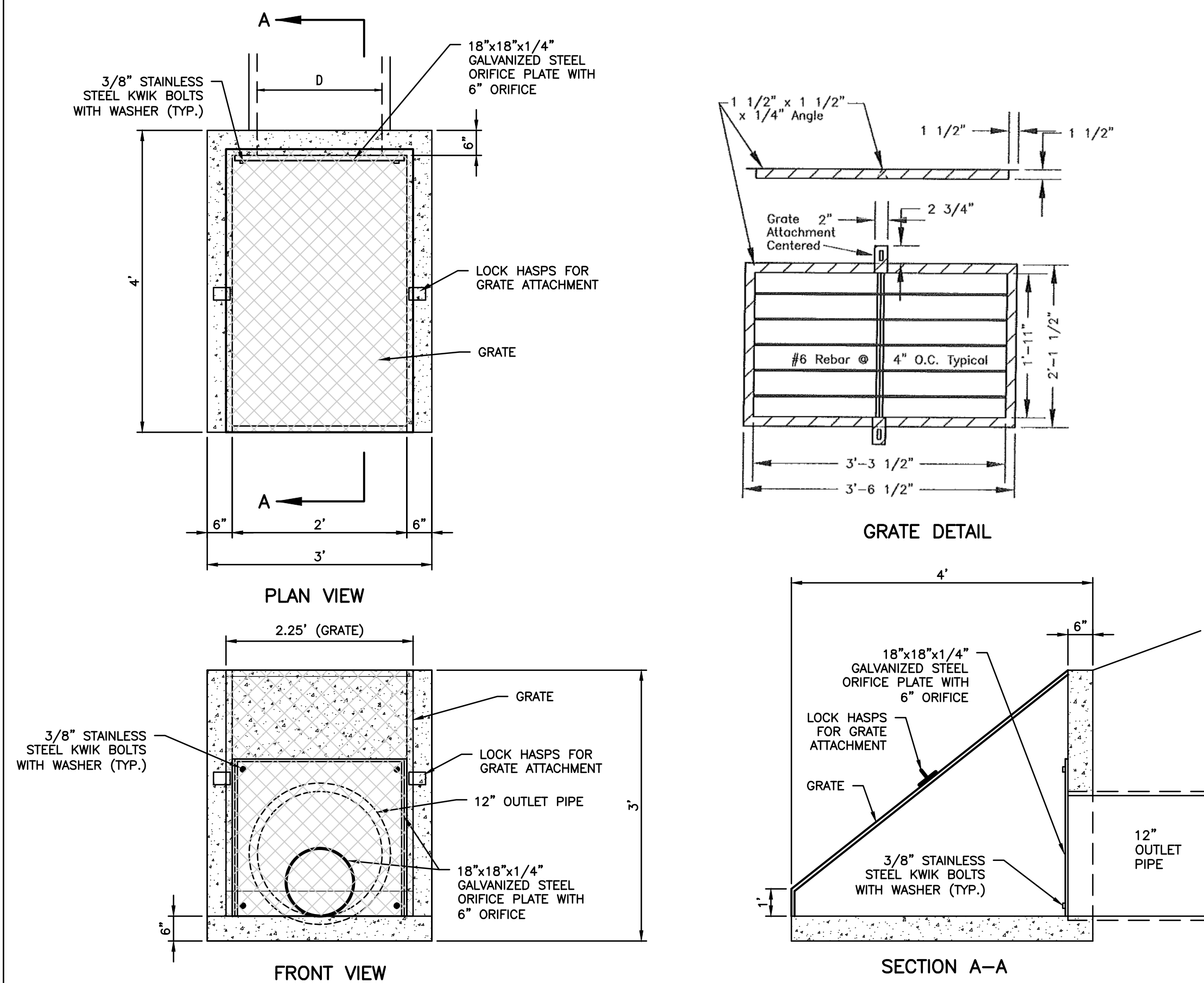
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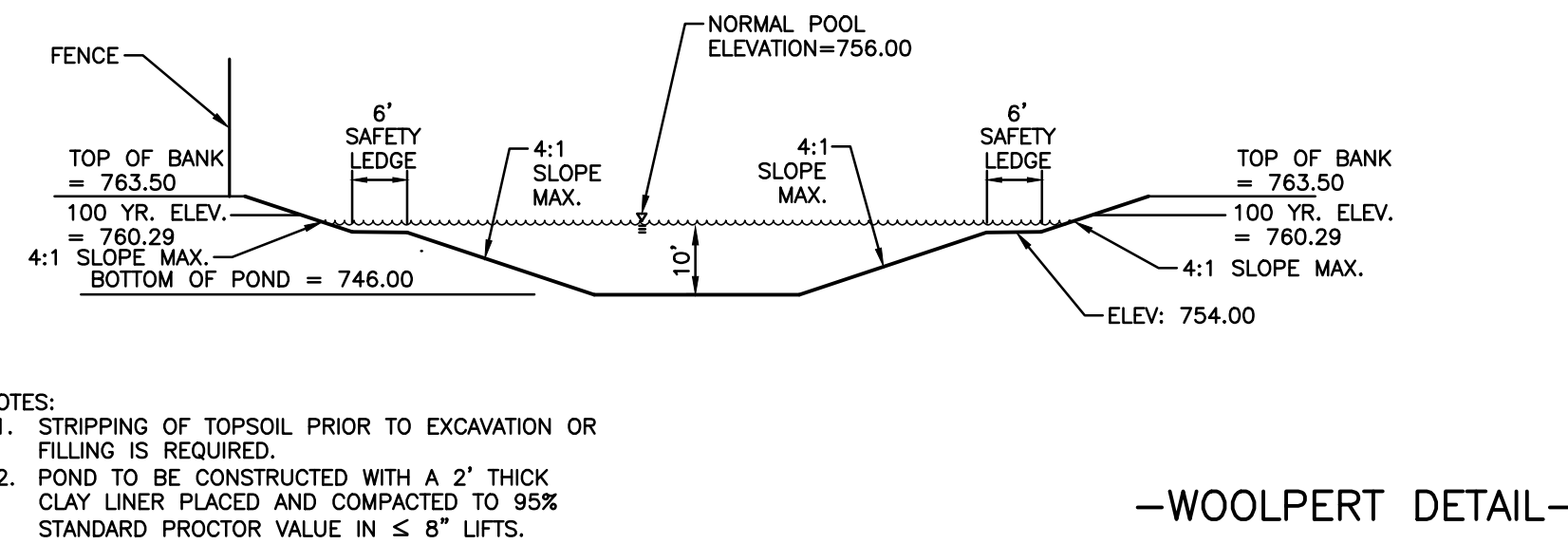
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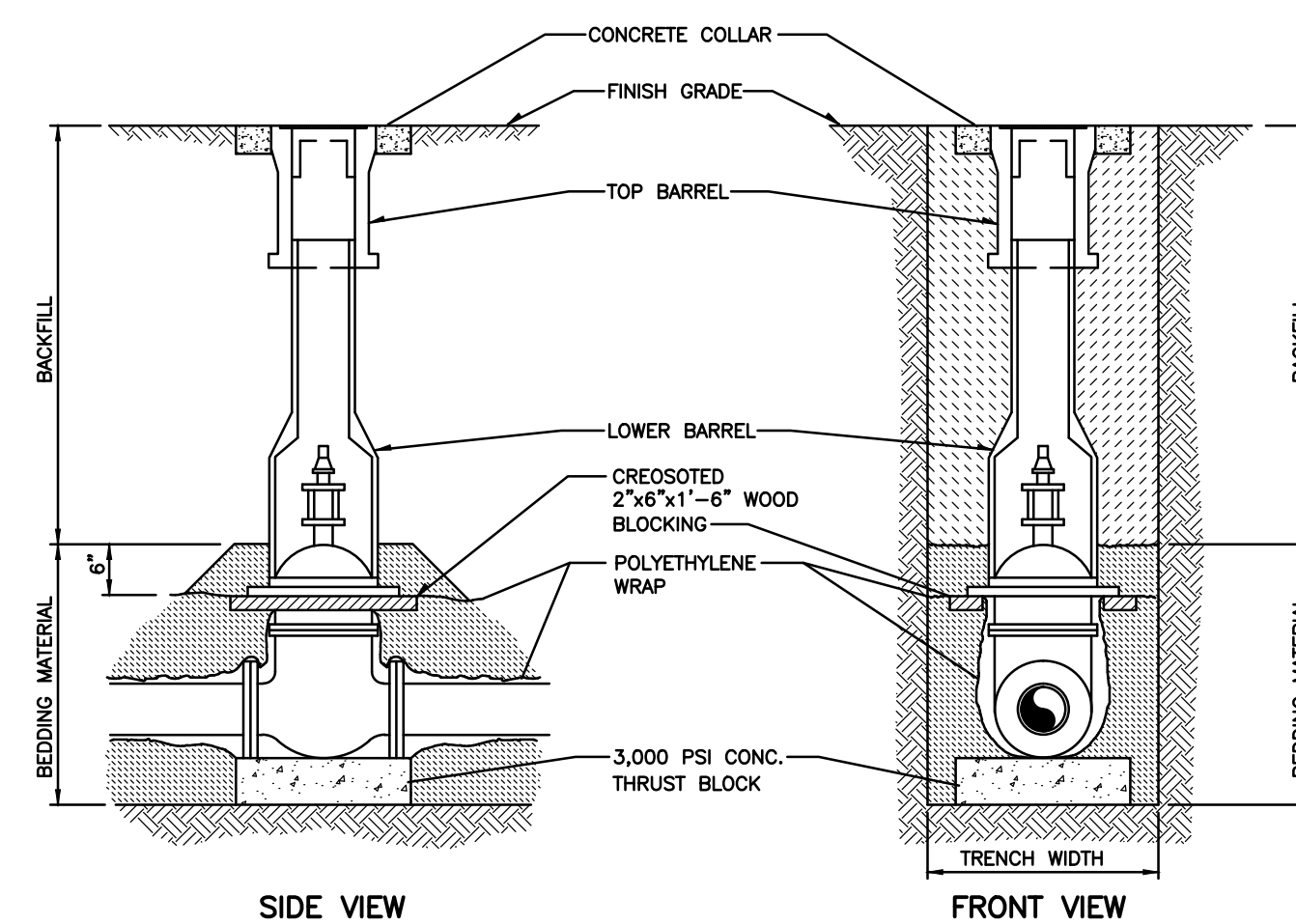
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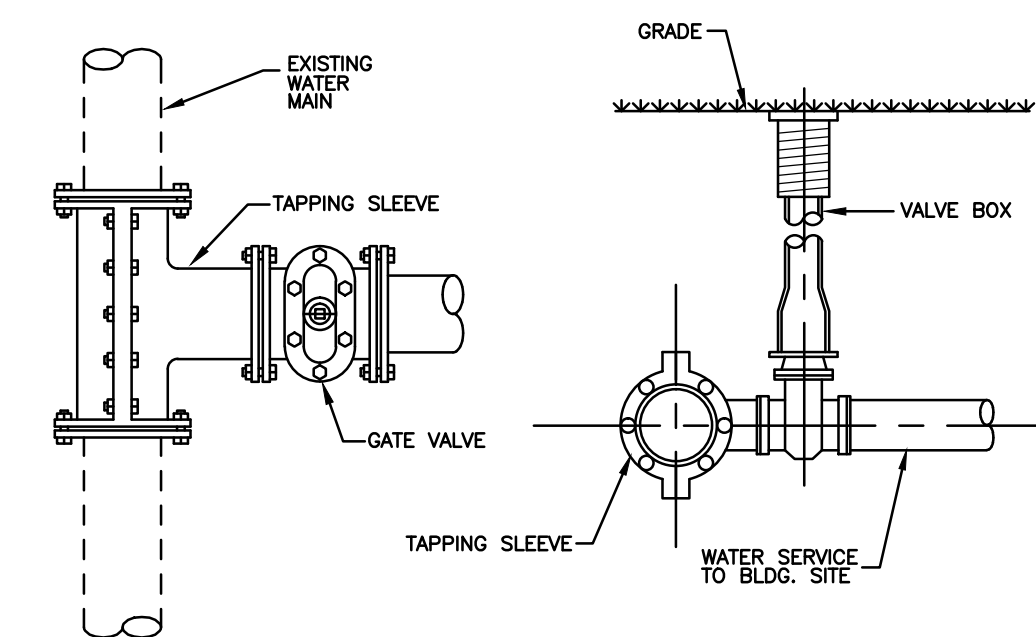
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—WOOLPERT DETAIL—



—WOOLPERT DETAIL—



—WOOLPERT DETAIL—



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DESIGNED BY: 
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DESIGN | GEOSPATIAL | INFRASTRUCTURE

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Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

DETAILS

DRAWN BY **SMB** ISSUE **1** ISSUE DATE **05/14/15** SHEET NO. **C704**
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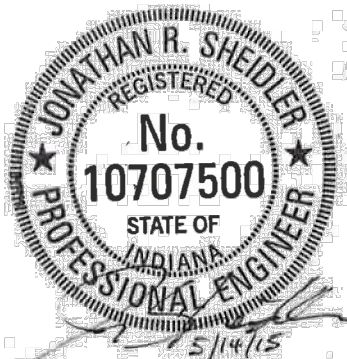
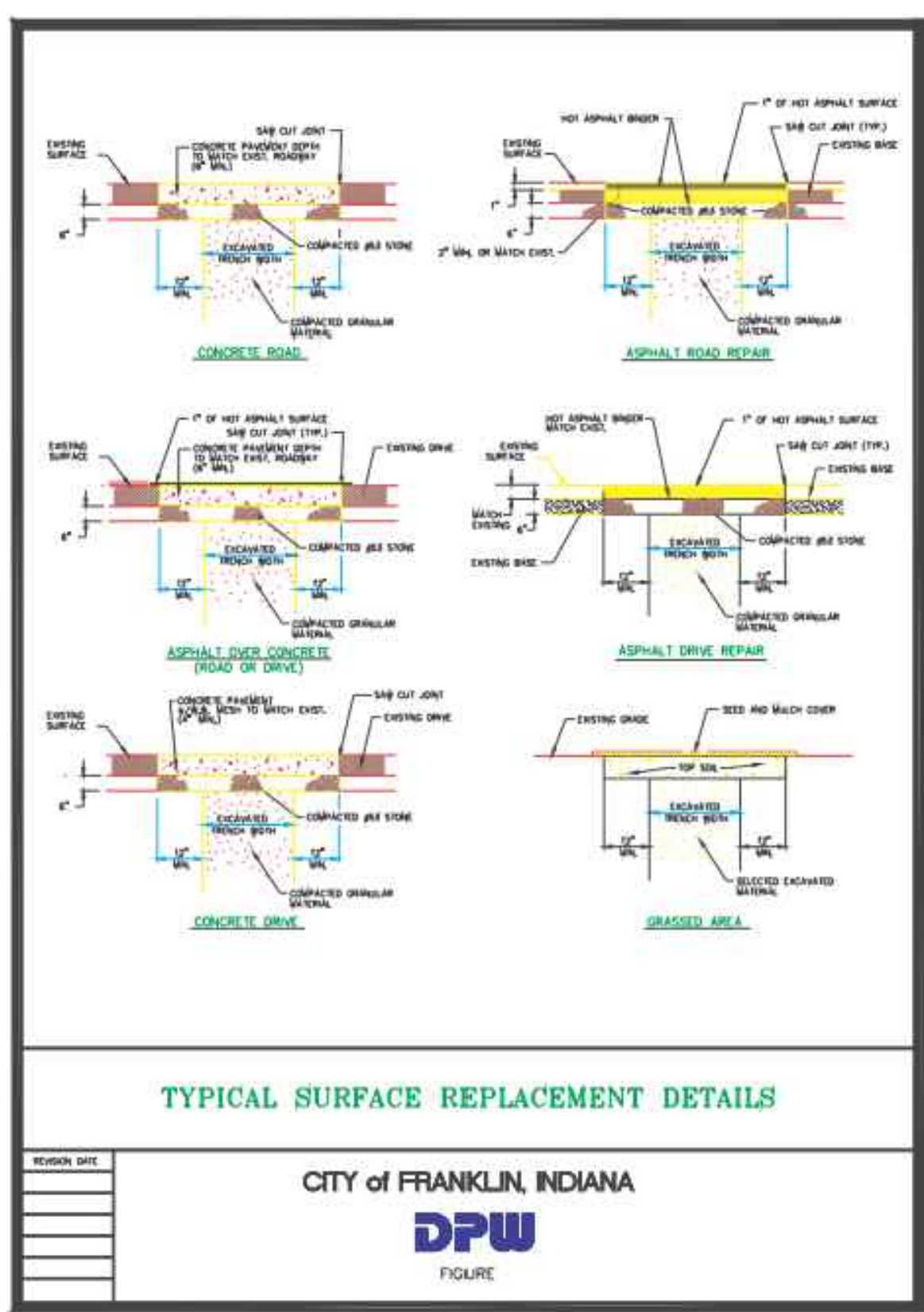
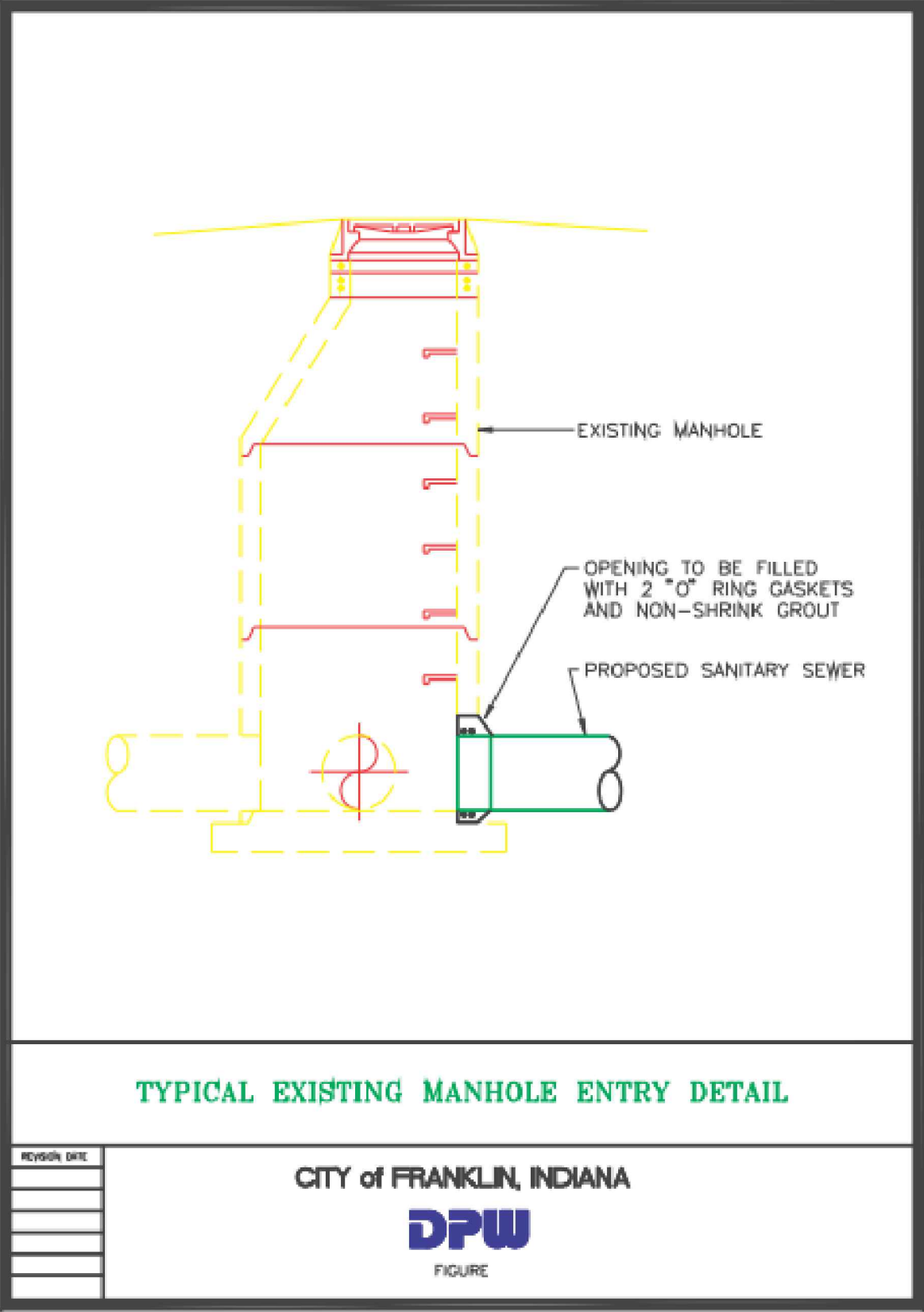
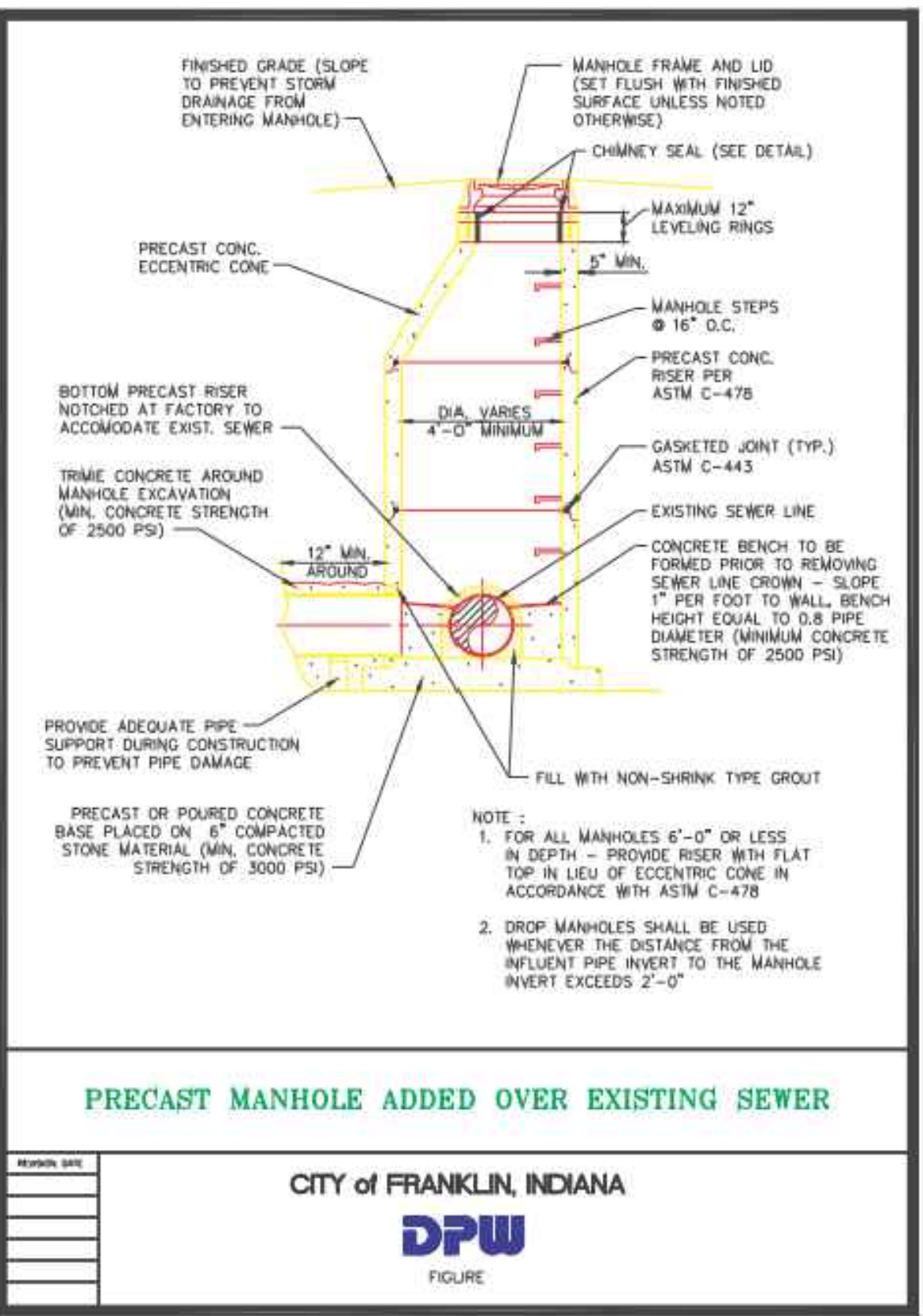
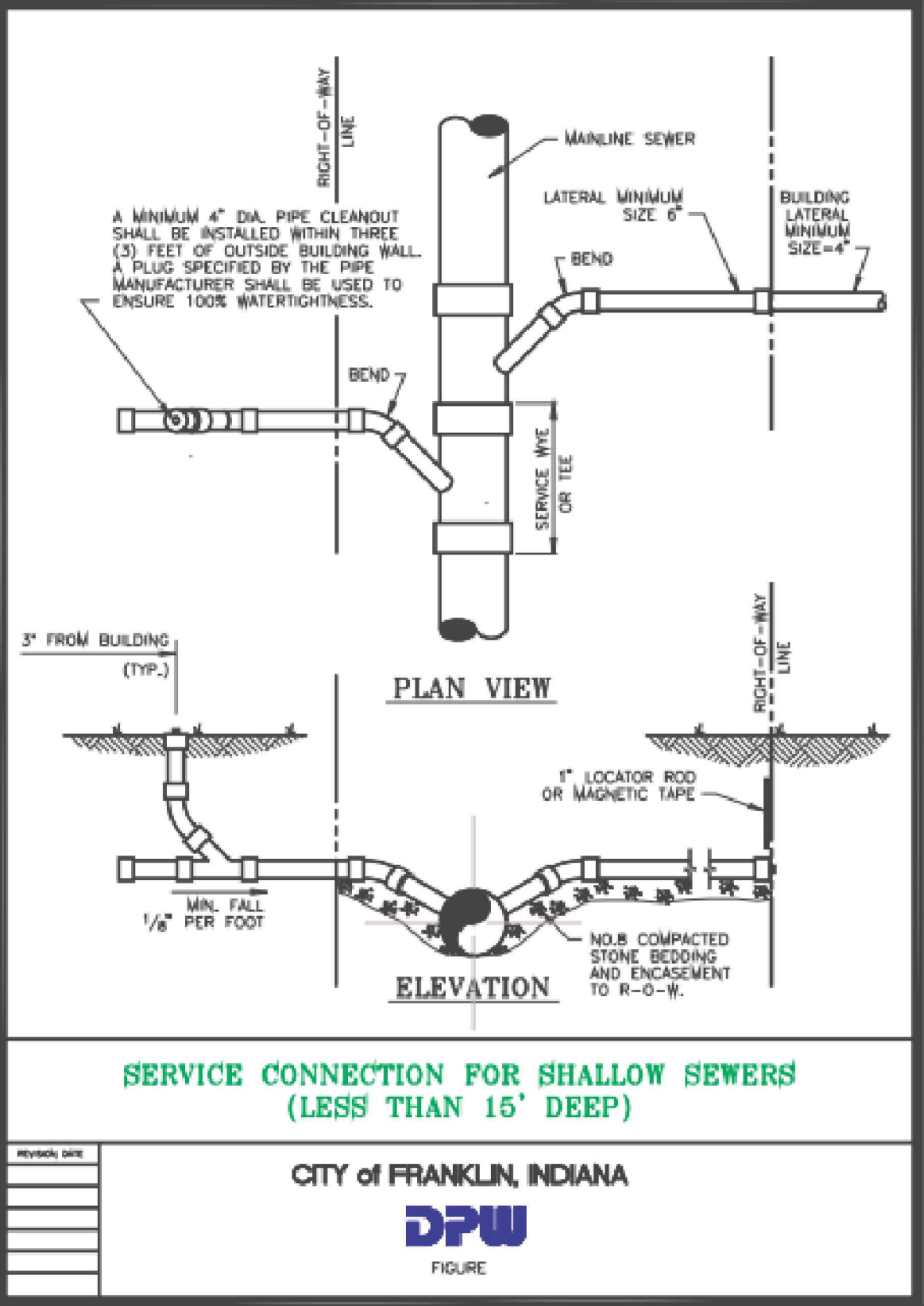
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C

B

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STORE FRK
CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
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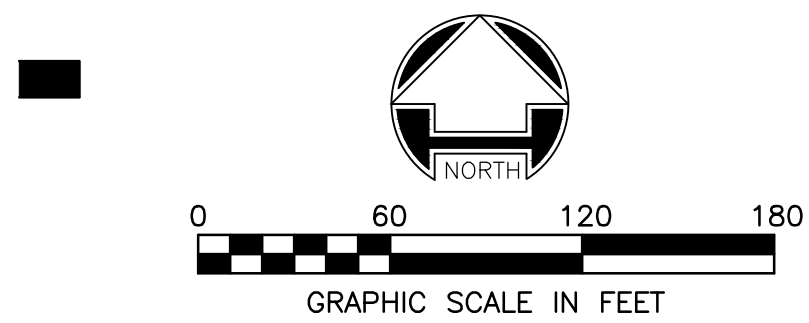
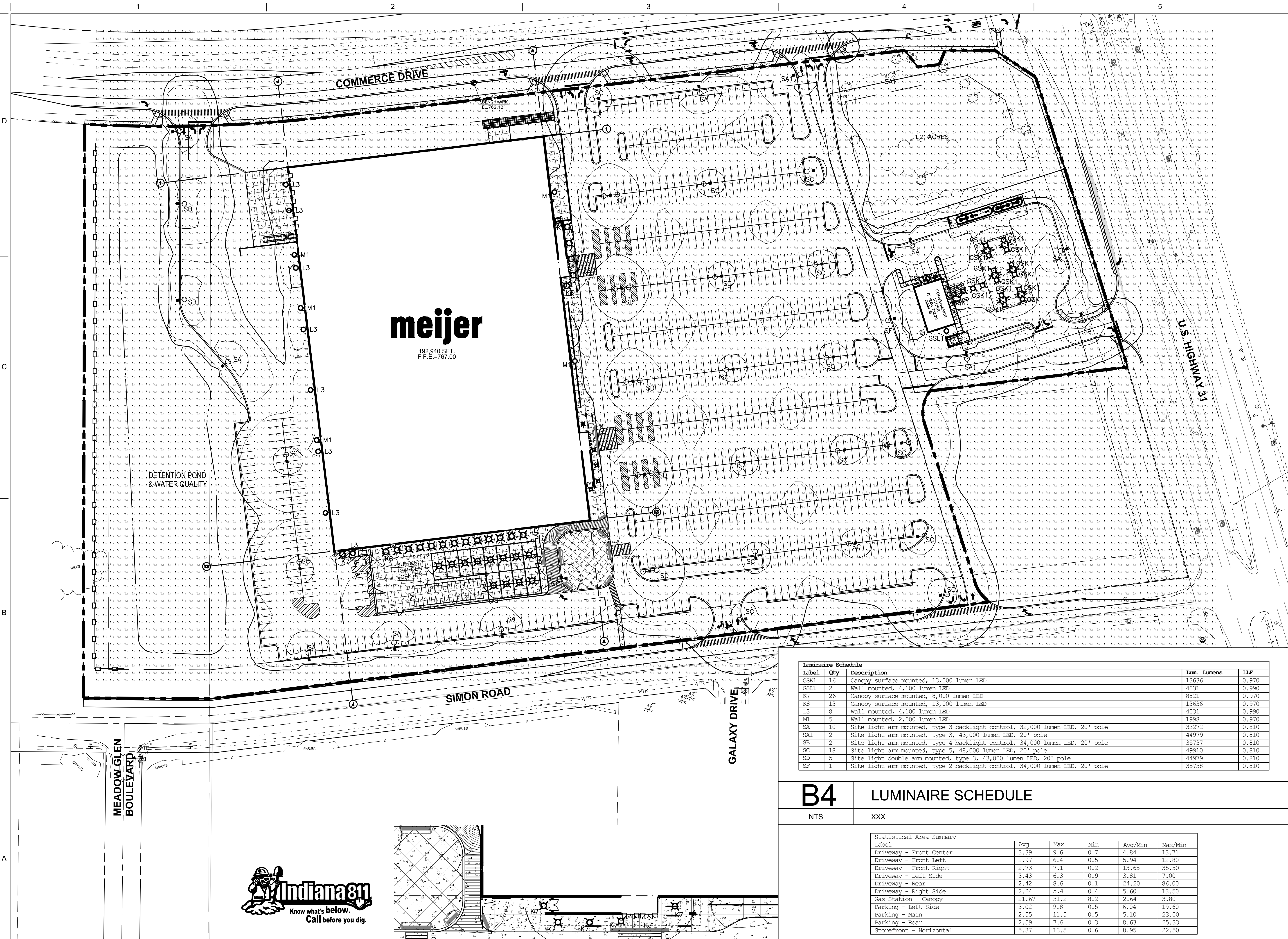
CONSTRUCTION MANAGED BY:

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Indianapolis, IN 46278
317.299.7500
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CITY OF FRANKLIN DETAILS

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CONSTRUCTION PLANS
2929 WALKER AVENUE
GRAND RAPIDS, MICHIGAN 49544
(616) 453-6711

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CONSTRUCTION MANAGED BY:

DESIGNED BY: WOOLPERT
7635 Interactive Way
Suite 100
Indianapolis, IN 46278
317.299.7500
FAX: 317.291.5805

PHOTOMETRIC PLAN

DRAWN BY: KAC
CHECKED BY: BJH
ISSUE: 1
ISSUE DATE: 05/14/15
SHEET NO.: C801
WOOLPERT PROJECT NO.: 74485
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Luminaire Schedule						
Label	Qty	Description		Lum. Lumens	LLF	
GSK1	16	Canopy surface mounted, 13,000 lumen LED		13636	0.970	
GSL1	2	Wall mounted, 4,100 lumen LED		4031	0.990	
K7	26	Canopy surface mounted, 8,000 lumen LED		8821	0.970	
R8	13	Canopy surface mounted, 13,000 lumen LED		13636	0.970	
L3	8	Wall mounted, 4,100 lumen LED		4031	0.990	
M1	5	Wall mounted, 2,000 lumen LED		1998	0.970	
SA	10	Site light arm mounted, type 3 backlight control, 32,000 lumen LED, 20' pole		33272	0.810	
SAL	2	Site light arm mounted, type 3, 43,000 lumen LED, 20' pole		44979	0.810	
SB	2	Site light arm mounted, type 4 backlight control, 34,000 lumen LED, 20' pole		35737	0.810	
SC	18	Site light arm mounted, type 5, 48,000 lumen LED, 20' pole		49910	0.810	
SD	5	Site light double arm mounted, type 3, 43,000 lumen LED, 20' pole		44979	0.810	
SF	1	Site light arm mounted, type 2 backlight control, 34,000 lumen LED, 20' pole		35738	0.810	

B4	LUMINAIRE SCHEDULE
NTS	XXX

Statistical Area Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
Driveway - Front Center	3.39	9.6	0.7	4.84	13.71
Driveway - Front Left	2.97	6.4	0.5	5.94	12.80
Driveway - Front Right	2.73	7.1	0.2	13.65	35.50
Driveway - Left Side	3.43	6.3	0.9	3.81	7.00
Driveway - Rear	2.42	8.6	0.1	24.20	86.00
Driveway - Right Side	2.24	5.4	0.4	5.60	13.50
Gas Station - Canopy	21.67	31.2	8.2	2.64	3.80
Parking - Left Side	3.02	9.8	0.5	6.04	19.60
Parking - Main	2.55	11.5	0.5	5.10	23.00
Parking - Rear	2.59	7.6	0.3	8.63	25.33
Storefront - Horizontal	5.37	13.5	0.6	8.95	22.50

A4	STATISTICAL AREA SUMMARY
NTS	XXX

A1	SITE ELECTRICAL PLAN
SCALE: 1" = 60'	

A2	CANOPY PHOTOMETRIC PLAN
SCALE: 1" = 30'	XXX

